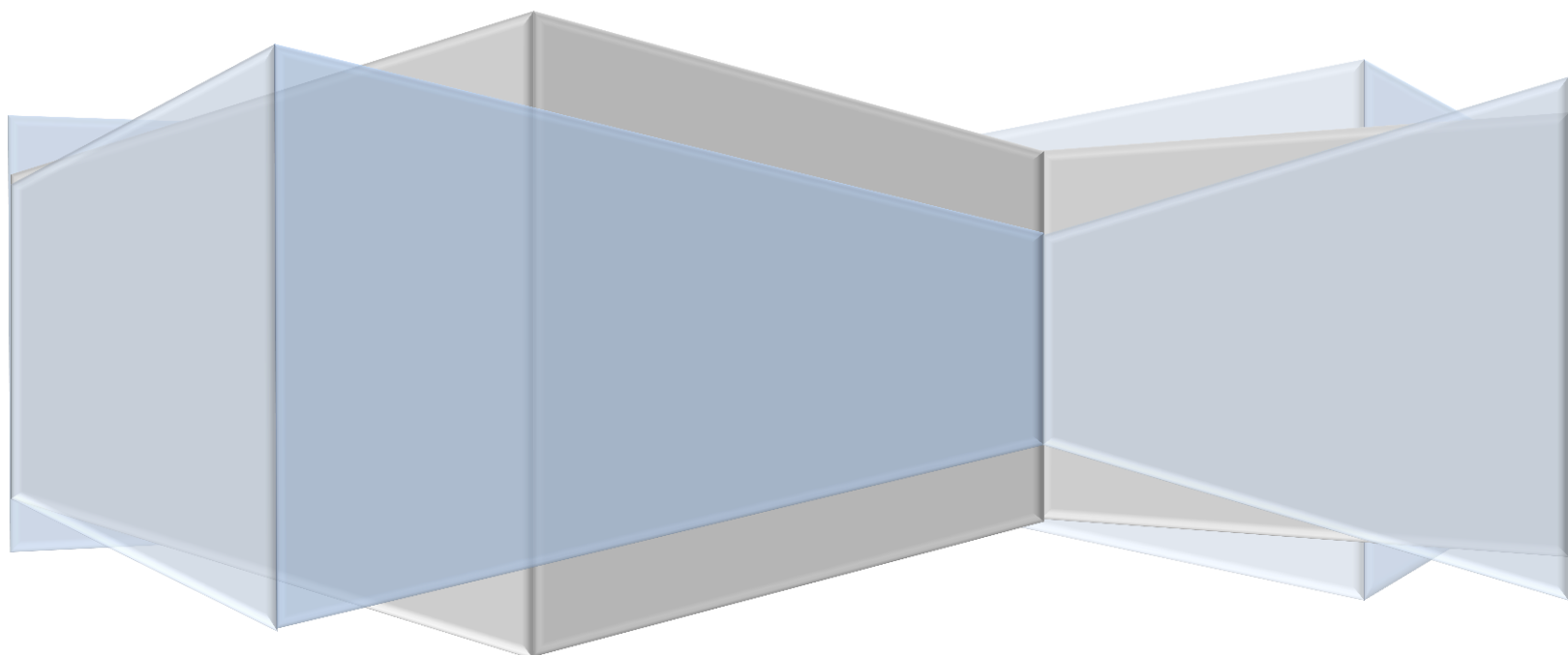




# 810 EDI Electric and Gas Implementation Guide

ESP Consolidated Billing - Outbound

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## Summary of Changes

Version	Date	Author(s)	Revision Notes
1.0	11/01/15	James Alberto	Initial draft
1.1	12/30/15	Rachel Sadler	Combined Outbound electric and gas into one guide
1.2	2/1/2016	Rachel Sadler	<ul style="list-style-type: none"> <li>Added "TD Therms" to MEA Measurements (for METER READS) segment, pg. 25</li> <li>Added "Gas" to 1T107 Product/Service ID, pg. 21</li> </ul>
1.3	3/2/2016	Rachel Sadler	Updated verbiage of note in TDS Total Monetary Value Summary segment.
1.4	4/1/2016	Rachel Sadler	Segment BAL Balance Detail: modified wording to: "Used only if there is a prior balance on the account".

# 810 Invoice

Functional Group ID=**IN**

## Introduction:

This will be the format that SDGE will send outbound to ESP's on ESP-Consolidated Billing.

## Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
3	010	ST	Transaction Set Header	M	1		
4	020	BIG	Beginning Segment for Invoice	M	1		
6	030	NTE	Note/Special Instruction	O	100		
7	050	REF	Reference Identification (ESP ACCOUNT NUMBER)	O	12		
8	050	REF	Reference Identification (SDGE ACCOUNT NUMBER)	O	12		
9	050	REF	Reference Identification (BILLING CYCLE)	O	12		
10	050	REF	Reference Identification (DESCRIPTION OF CHANGE)	O	12		
LOOP ID - N1						200	
11	070	N1	Name (ACCOUNT NAME)	O	1		
12	090	N3	Address Information	O	2		
13	100	N4	Geographic Location	O	1		
LOOP ID - N1						200	
14	070	N1	Name (UTILITY NAME - SDGE)	O	1		
LOOP ID - N1						200	
15	070	N1	Name (ESP NAME)	O	1		
16	130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
17	140	DTM	Date/Time Reference	O	10		
18	212	BAL	Balance Detail (for PRIOR BALANCE)	O	>1		
19	212	BAL	Balance Detail (for LEVEL PAY PLAN)	O	>1		

## Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - IT1						200000	
20	010	IT1	Baseline Item Data (Invoice)	O	1		
22	040	TXI	Tax Information	O	10		
23	059	MEA	Measurements (for MULTIPLIER)	O	40		
24	059	MEA	Measurements (for METER READS)	O	40		
26	059	MEA	Measurements (for DEMAND)	O	40		
28	059	MEA	Measurements (for THERMS USE)	O	40		
29	120	REF	Reference Identification (SERVICE DELIVERY POINT)	O	>1		
30	120	REF	Reference Identification (METER NUMBER)	O	>1		
31	120	REF	Reference Identification (RATE CODE)	O	>1		
32	120	REF	Reference Identification (OLD METER NUMBER)	O	>1		
33	150	DTM	Date/Time Reference	O	10		
LOOP ID - SLN						1000	
34	200	SLN	Subline Item Detail	O	1		
35	230	SAC	Service, Promotion, Allowance, or Charge Information	O	25		

**Summary:**

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
37	010	TDS	Total Monetary Value Summary	M	1		
38	070	CTT	Transaction Totals	O	1		nl
39	080	SE	Transaction Set Trailer	M	1		

**Transaction Set Notes**

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

**Segment:** **ST Transaction Set Header**

**Position:** 010

**Loop:**

**Level:** Heading:

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the start of a transaction set and to assign a control number

**Syntax Notes:**

**Semantic Notes:** 1 The transaction set identifier (ST01) 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:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 810 Invoice	M ID 3/3
Must Use	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 transaction set and transmit identifying numbers and dates

**Syntax Notes:**

**Semantic Notes:**

- 1 BIG01 is the invoice issue date.
- 2 BIG03 is the date assigned by the purchaser to purchase order.
- 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

**Comments:**

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

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	BIG01	373	<b>Date</b> Date expressed as CCYYMMDD Invoice Issue Date.	M DT 8/8
Must Use	BIG02	76	<b>Invoice Number</b> Identifying number assigned by issuer This will be a 10-digit SDG&E Account Number + 6 digit date in the format YYMMDD.	M AN 1/22
Rec	BIG07	640	<b>Transaction Type Code</b> Code specifying the type of transaction	O ID 2/2
		72	Termination This invoice contains a cancel loop, and a rebill loop, but no new, original, previously unbilled charges. Use with BIG08 of 'CO'.	
		AC	Requisition Cancellation A termination of a request for equipment or material This invoice contains at least one cancellation loop, but no rebilling. Use with BIG08 of 'CO' when the invoice contains new, original, previously unbilled charges in addition to a cancellation.	
		AI	Adjusted Invoice This invoice contains multiple billing periods including the final in a rebill series, and this is the final, closing bill for an account. Use with BIG08 of '00' when new, original, previously unbilled charges are included. Use with BIG08 of '01' when at least one cancellation loop and new, original, previously unbilled charges are included. Use with BIG08 of 'CO' when no new charges or cancellations are included.	
		CI	Consolidated Invoice This invoice contains multiple billing periods. Use with BIG08 of '00' when the invoice contains new, original, previously unbilled charges.	
		FB	Final Bill This invoice contains the final, closing bill for an account. Use with BIG08 '00' when the charges are new, original, previously unbilled. Use with BIG08 '01' when the invoice includes at least one cancellation loop. Use with BIG08 'CO' when the invoice contains at least one cancellation loop and multiple rebilling periods, including the final in a series of rebills.	

FD	<p>Consolidated Invoice, Final Bill</p> <p>The final (last) bill for a consolidated account</p> <p>This invoice contains at least one rebill which is the final rebill for the series. Use with BIG08 of '00' when the invoice contains new, original, previously unbilled charges.</p> <p>Use with BIG08 of 'CO' when the invoice contains only one rebilled period. Use with BIG08 of '01' when the invoice contains at least one cancellation loop.</p>
FF	<p>Full Assignment Filing</p> <p>This invoice contains multiple rebilling periods, including the final in a series of rebills.</p> <p>Use with BIG08 of '00' when the invoice includes new, original, previously unbilled charges and no cancellation loop.</p> <p>Use with BIG08 of '01' when the invoice includes at least one cancellation loop.</p> <p>Use with BIG08 of 'CO' when no new and no cancellation data is included.</p>
FL	<p>Final Notice</p> <p>This invoice contains the final rebilling period in a series of rebills, and it is the final closing bill for the account.</p> <p>Use with BIG08 of '00' when the invoice includes at least one cancellation loop and new, original, previously unbilled charges.</p> <p>Use with BIG08 of '01' when the invoice includes at least one cancellation loop but not any new charges.</p> <p>Use with BIG08 of 'CO' when the invoice includes only rebilling data.</p>
KH	<p>Change Order</p> <p>This invoice includes cancellation data and rebilling data including the final rebilling in a series of rebills, and there are new, original, previously unbilled charges included.</p> <p>Use with BIG08 '00' when just one rebill period is included.</p> <p>Use with BIG08 'CO' when multiple rebill periods are included.</p>
PR	<p>Product (or Service)</p> <p>This invoice contains new, original, previously unbilled charges.</p> <p>Use with BIG08 '00'.</p>
RE	<p>Rebill</p> <p>This invoice contains rebilled data, but not the final in a series of rebills.</p> <p>Use with BIG08 of '01' when the invoice contains at least one cancellation loop.</p> <p>Use with BIG08 of 'CO' when the invoice contains only rebilled data.</p>
RG	<p>Revised Final Bill</p> <p>Code to indicate that the last bill has been recalculated due to the receipt of delayed usage, or credits; to identify unpaid overdue final accounts, which are reissued each month</p> <p>This invoice contains the final, closing bill for this account, and includes new, original, previously unbilled charges.</p> <p>Use with BIG08 '00' when multiple billing periods are included.</p> <p>Use with BIG08 'CO' when a single rebilling period is included.</p>

Rec	BIG08	353	Transaction Set Purpose Code	O	ID 2/2
			Code identifying purpose of transaction set		
			00 Original		
			01 Cancellation		
			CO Corrected		

**Segment:** **NTE** Note/Special Instruction  
**Position:** 030  
**Loop:**  
**Level:** Heading:  
**Usage:** Optional  
**Max Use:** 100  
**Purpose:** To transmit information in a free-form format, if necessary, for comment or special instruction

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

**Notes:** Used for required messages and notices, when applicable.  
 SDGE will post repetitive messages on our ESP EDI web page, and no longer send them with each 810 transaction.

**Data Element Summary**

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



**Segment:** **REF** **Reference Identification (ESP ACCOUNT NUMBER)**

**Position:** 050

**Loop:**

**Level:** Heading:

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
  - 2 If either C04003 or C04004 is present, then the other is required.
  - 3 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes:**
- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**

**Notes:** If SDGE does not have an ESP-assigned account number for the end-use customer on file, this segment will not be provided.

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
<b>Must Use</b>	<b>REF01</b>	<b>128</b>	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Energy Service Provider-assigned account number for the end use customer.	<b>M ID 2/3</b>
	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier This will contain the ESP's Account Number for this account.	<b>X AN 1/30</b>

**Segment:** **REF** **Reference Identification (SDGE ACCOUNT NUMBER)**

**Position:** 050

**Loop:**

**Level:** Heading:

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

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

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

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

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

**Comments:**

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
<b>Must Use</b>	<b>REF01</b>	<b>128</b>	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Utility-assigned account number for the end use customer.	<b>M ID 2/3</b>
	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier This will contain the 10-digit SDGE Account Number.	<b>X AN 1/30</b>

**Segment:** **REF** Reference Identification (BILLING CYCLE)

**Position:** 050

**Loop:**

**Level:** Heading:

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

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

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

**Comments:**

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification BF Billing Center Identification	M ID 2/3
				Billing Cycle. Indicates that REF02 will contain the cycle number.
	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier This will contain the SDGE billing cycle number.	X AN 1/30

**Segment:** **REF** Reference Identification (DESCRIPTION OF CHANGE)

**Position:** 050

**Loop:**

**Level:** Heading:

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

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

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

**Comments:**

**Notes:** The use of this REF segment is only appropriate when the invoice includes a change for a previously sent invoice, which would also be indicated by the appropriate codes in the BIG07 and BIG08.

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
<b>Must Use</b>	<b>REF01</b>	<b>128</b>	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification T8 Description of Change Code	<b>M ID 2/3</b>
	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier This will contain the SDGE Rebate/Rebill Reason Code. A table of these codes will be provided on the SDG&E ESP EDI web page.	<b>X AN 1/30</b>
	<b>REF03</b>	<b>352</b>	<b>Description</b> A free-form description to clarify the related data elements and their content This will contain the Rebate/Rebill Reason Code description.	<b>X AN 1/80</b>

**Segment:** **N1** Name (ACCOUNT NAME)

**Position:** 070

**Loop:** N1 Optional

**Level:** Heading:

**Usage:** Optional

**Max Use:** 1

**Purpose:** To identify a party by type of organization, name, and code

**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:**

**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

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

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
<b>Must Use</b>	<b>N101</b>	<b>98</b>	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual 8R Consumer Service Provider (CSP) Customer Indicates that N102 will contain the SDGE Account Name.	<b>M ID 2/3</b>
	<b>N102</b>	<b>93</b>	<b>Name</b> Free-form name Account Name.	<b>X AN 1/60</b>

**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:** Account Service Address.

**Data Element Summary**

Ref. Des.	Data Element	Name	Attributes
Must Use	N301	166 Address Information	M AN 1/55
		Address information	
Service Address - Street address.			
	N302	166 Address Information	O AN 1/55
		Address information	
Service Address - continuation of Street Address, if needed.			

**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 If N406 is present, then N405 is required.  
**Semantic Notes:**  
**Comments:** 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.  
 2 N402 is required only if city name (N401) is in the U.S. or Canada.  
**Notes:** Account Service Address.

**Data Element Summary**

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

**Segment:** **N1** Name (UTILITY NAME - SDGE)  
**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.  
**2** N105 and N106 further define the type of entity in N101.

**Data Element Summary**

Ref. Des.	Data Element	Name	Attributes
Must Use	N101	<b>98 Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Utility. This indicates that N102 will contain SDGE.	<b>M ID 2/3</b>
	N102	<b>93 Name</b> Free-form name Will contain 'SDGE'.	<b>X AN 1/60</b>
	N103	<b>66 Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet	<b>X ID 1/2</b>
	N104	<b>67 Identification Code</b> Code identifying a party or other code Will contain '006911457'.	<b>X AN 2/80</b>



**Segment:** **N1** Name (ESP NAME)

**Position:** 070

**Loop:** N1 Optional

**Level:** Heading:

**Usage:** Optional

**Max Use:** 1

**Purpose:** To identify a party by type of organization, name, and code

**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:**

**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

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

**Data Element Summary**

Ref. Des.	Data Element	Name	Attributes
Must Use	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered Energy Service Provider. Indicates that N102 will contain the Energy Service Provider's name.	M ID 2/3
	N102	93 Name Free-form name Will contain the Energy Service Provider's name.	X AN 1/60
	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) Indicates that N104 will contain the Energy Service Provider's DUNS number.	X ID 1/2
	N104	67 Entity Identifier Code Code identifying a party or other code Will contain the Energy Service Provider's DUNS number.	X AN 2/80

**Segment:** **ITD** **Terms of Sale/Deferred Terms of Sale**

**Position:** 130

**Loop:**

**Level:** Heading:

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify terms of sale

- Syntax Notes:**
- 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
  - 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
  - 3 If ITD09 is present, then at least one of ITD10 or ITD 11 is required.

**Semantic Notes:** 1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.

- Comments:**
- 1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
ITD06	446	Terms Net Due Date	O DT 8/8
		Date when total invoice amount becomes due expressed in format CCYYMMDD	
		Payment due date.	

**Segment:** **DTM** **Date/Time Reference**  
**Position:** 140  
**Loop:**  
**Level:** Heading:  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

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

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
<b>Must Use</b>	<b>DTM01</b>	<b>374</b>	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time	<b>M ID 3/3</b>
			186 Invoice Period Start When the billing period covered by an invoice begins	
			187 Invoice Period End When the billing period covered by an invoice ends	
<b>Must Use</b>	<b>DTM02</b>	<b>373</b>	<b>Date</b> Date expressed as CCYYMMDD	<b>X DT 8/8</b>

**Segment:** **BAL** **Balance Detail (for PRIOR BALANCE)**  
**Position:** 212  
**Loop:**  
**Level:** Heading:  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To identify the specific monetary balances associated with a particular account

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** Used only if there is a prior balance on the account.

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
<b>Must Use</b>	<b>BAL01</b>	<b>951</b>	<b>Balance Type Code</b> Code indicating the type of balance P Previous Month Balance of previous period charges prior to applying payments and adjustments for the previous period billing BAL03 will contain a Prior Balance.	<b>M ID 1/2</b>
<b>Must Use</b>	<b>BAL02</b>	<b>522</b>	<b>Amount Qualifier Code</b> Code to qualify amount PB Billed Amount Total amount due on the period bill	<b>M ID 1/3</b>
<b>Must Use</b>	<b>BAL03</b>	<b>782</b>	<b>Monetary Amount</b> Monetary amount Prior balance amount.	<b>M R 1/18</b>

**Segment:** **BAL** **Balance Detail (for LEVEL PAY PLAN)**  
**Position:** 212  
**Loop:**  
**Level:** Heading:  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To identify the specific monetary balances associated with a particular account

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** Used only when the account is set up on the SDG&E Level Pay plan.

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
<b>Must Use</b>	<b>BAL01</b>	<b>951</b>	<b>Balance Type Code</b> Code indicating the type of balance Y Year to Date Indicates that BAL03 will contain the Level Pay Plan Settlement amount.	<b>M ID 1/2</b>
<b>Must Use</b>	<b>BAL02</b>	<b>522</b>	<b>Amount Qualifier Code</b> Code to qualify amount YB Actual Unpaid Principal Balance Indicates that BAL03 will contain the Level Pay Plan Settlement amount.	<b>M ID 1/3</b>
<b>Must Use</b>	<b>BAL03</b>	<b>782</b>	<b>Monetary Amount</b> Monetary amount Level Pay Plan Settlement amount.	<b>M R 1/18</b>

- Segment:** **IT1** **Baseline Item Data (Invoice)**
- Position:** 010
- Loop:** IT1 Optional
- Level:** Detail:
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions
- Syntax Notes:**
- 1 If any of IT102 IT103 or IT104 is present, then all are required.
  - 2 If either IT106 or IT107 is present, then the other is required.
  - 3 If either IT108 or IT109 is present, then the other is required.
  - 4 If either IT110 or IT111 is present, then the other is required.
  - 5 If either IT112 or IT113 is present, then the other is required.
  - 6 If either IT114 or IT115 is present, then the other is required.
  - 7 If either IT116 or IT117 is present, then the other is required.
  - 8 If either IT118 or IT119 is present, then the other is required.
  - 9 If either IT120 or IT121 is present, then the other is required.
  - 10 If either IT122 or IT123 is present, then the other is required.
  - 11 If either IT124 or IT125 is present, then the other is required.
- Semantic Notes:** 1 IT101 is the purchase order line item identification.
- Comments:**
- 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
  - 2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
- Notes:**
- SDGE will provide one IT1 loop qualified with 'ACCOUNT' in IT109 for account level charges. We will provide IT1 loops qualified with 'METER' in IT109 for all charges attributed to a single meter for a period.
- We will provide IT1 loops qualified with 'UNMET' in IT109 for unmetered services, such as street lights.
- A single 810 will contain more than one IT1 loop.
- A Meter IT1 loop can be mapped differently, depending on whether Time-of-Use (TOU) or straight meter measurement is employed. With a TOU measurement, multiple MEA segments will convey the usage, with the MEA07 in each MEA providing the TOU classification. The IT1 loop for a non-TOU or straight meter measurement will contain a single MEA segment with no MEA07.

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
IT101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set Line item counter.	<b>O AN 1/20</b>
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	<b>X ID 2/2</b>
IT107	234	<b>Product/Service ID</b> Identifying number for a product or service This will contain 'ELECTRIC' or 'GAS'.	<b>X AN 1/48</b>
IT108	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) C3 Classification	<b>X ID 2/2</b>
IT109	234	<b>Product/Service ID</b> Identifying number for a product or service ACCOUNT Account Model METER Meter Model UNMET Unmetered Services	<b>X AN 1/48</b>

<b>IT110</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		IT110 and IT111 are used only when IT109 = 'METER'.		
		MB                      Measurement Type Code		
<b>IT111</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/48</b>
		Identifying number for a product or service		
		NT                      Non-Time of Use Measurement		
		TOU                    Time of Use Measurement		
<b>IT112</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		IT112 and IT113 are used to indicate that meter readings will not be provided.		
		EQ                      Equipment Type		
<b>IT113</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/48</b>
		Identifying number for a product or service		
		NR                      No reads will be presented.		

**Segment:** **TXI Tax Information**

**Position:** 040

**Loop:** IT1 Optional

**Level:** Detail:

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify tax information

- Syntax Notes:**
- 1 At least one of TXI02 TXI03 or TXI06 is required.
  - 2 If either TXI04 or TXI05 is present, then the other is required.
  - 3 If TXI08 is present, then TXI03 is required.

- Semantic Notes:**
- 1 TXI02 is the monetary amount of the tax.
  - 2 TXI03 is the tax percent expressed as a decimal.
  - 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

**Comments:**

**Notes:** Taxes included in this position are meter level tax charges. Account level taxes must show in the TXI segment Summary position 020.

**Data Element Summary**

Ref. Des.	Data Element	Name	Attributes
Must Use TXI01	963	<b>Tax Type Code</b> Code specifying the type of tax Use any valid Data Element 963 codes as mutually agreed between the trading partners.	M ID 2/2
		MP Municipal Tax Service tax imposed by a municipality	
TXI02	782	<b>Monetary Amount</b> Monetary amount Municipal Tax amount.	X R 1/18
TXI07	662	<b>Relationship Code</b> Code indicating the relationship between entities	O ID 1/1
		A Add The amount in TXI02 should be added when summing the invoice total.	
TXI10	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set This will contain the description of the tax, as specified in TX101. Example: Chula Vista City Tax	O AN 1/20



**Segment:** **MEA** Measurements (for MULTIPLIER)

**Position:** 059

**Loop:** IT1 Optional

**Level:** Detail:

**Usage:** Optional

**Max Use:** 40

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

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

2 If MEA05 is present, then MEA04 is required.

3 If MEA06 is present, then MEA04 is required.

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

5 Only one of MEA08 or MEA03 may be present.

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

**Comments:** 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

**Notes:** A MEA segment for the meter multiplier will contain only the meter multiplier information. Separate MEAs will be used to provide demand or usage information.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
MEA02	738	Measurement Qualifier	O ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies	
		MU Multiplier	
		This indicates that MEA03 will contain the meter multiplier.	
MEA03	739	Measurement Value	X R 1/20
		The value of the measurement	
		The numeric value of the multiplier. If no multiplier, the value will be '1'.	

**Segment:** **MEA** Measurements (for METER READS)

**Position:** 059

**Loop:** IT1 Optional

**Level:** Detail:

**Usage:** Optional

**Max Use:** 40

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

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

2 If MEA05 is present, then MEA04 is required.

3 If MEA06 is present, then MEA04 is required.

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

5 Only one of MEA08 or MEA03 may be present.

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

**Comments:** 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

**Notes:** Each MEA segment will contain metering data for only one meter for one period.

With non-TOU metering, a single MEA segment will contain both the beginning read (MEA05) and ending read (MEA06), and no MEA07.

With TOU metering, multiple MEA segments will contain beginning read (MEA05) and ending read (MEA06) with the MEA07 providing the TOU classification.

**Data Element Summary**

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
MEA01	737	<b>Measurement Reference ID Code</b>	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		
MEA04	C001	<b>Composite Unit of Measure</b>	X	
		To identify a composite unit of measure (See Figures Appendix for examples of use)		
Must Use	C00101	<b>355 Unit or Basis for Measurement Code</b>	M	ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		KH Kilowatt Hour		
		TD Therms		
Rec	MEA05	<b>740 Range Minimum</b>	X	R 1/20
		The value specifying the minimum of the measurement range		
		Beginning read.		
Rec	MEA06	<b>741 Range Maximum</b>	X	R 1/20
		The value specifying the maximum of the measurement range		
		Ending read.		
MEA07	935	<b>Measurement Significance Code</b>	O	ID 2/2
		Code used to benchmark, qualify or further define a measurement value		
		45 Per Gallon		
		Calculated Value was based on per gallon parameter or standard		
		Summer On-Peak (code will be AA in 4012)		
		49 Mist		
		Winter On-Peak (code will be AF in 4012)		
		50 Predominant		

	Winter Semi-Peak (code will be AG in 4012)
52	Cost
	Winter Super Off-Peak (code will be AJ in 4012)
72	Low to Good
	Summer Super Off-Peak (code will be AE in 4012)
73	Low to High
	Summer Off-Peak (code will be AC in 4012)
74	Low to Medium
	Summer Semi-Peak (code will be AB in 4012)
75	Low to Moderate
	Winter Off-Peak (code will be AH in 4012)

**Segment:** **MEA** Measurements (for DEMAND)

**Position:** 059

**Loop:** IT1 Optional

**Level:** Detail:

**Usage:** Optional

**Max Use:** 40

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

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

2 If MEA05 is present, then MEA04 is required.

3 If MEA06 is present, then MEA04 is required.

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

5 Only one of MEA08 or MEA03 may be present.

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

**Comments:** 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

**Notes:** Each MEA segment will contain metering data for only one meter for one period.

With TOU metering, multiple MEA segments will convey the demand in MEA06, with the MEA07 providing the TOU classification.

**Data Element Summary**

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
MEA01	737	Measurement Reference ID Code		O ID 2/2
		Code identifying the broad category to which a measurement applies		
		AF Actual Total		
MEA04	C001	Composite Unit of Measure		X
		To identify a composite unit of measure (See Figures Appendix for examples of use)		
Must Use	C00101	355 Unit or Basis for Measurement Code		M ID 2/2
		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		
Rec	MEA06	741 Range Maximum		X R 1/20
		The value specifying the maximum of the measurement range		
		The value of the demand, as specified by the code in MEA07.		
MEA07	935	Measurement Significance Code		O ID 2/2
		Code used to benchmark, qualify or further define a measurement value		
		34 Ratchet		
		Highest previously attained value		
		Max Demand		
		45 Per Gallon		
		Calculated Value was based on per gallon parameter or standard		
		Summer On-Peak (code will be AA in 4012)		
		49 Mist		
		Winter On-Peak (code will be AF in 4012)		
		50 Predominant		
		Winter Semi-Peak (code will be AG in 4012)		
		52 Cost		
		Winter Super Off-Peak (code will be AJ in 4012)		

67	Final List
	Non-Coincident Demand (code will be AW in 4012)
72	Low to Good
	Summer Super Off-Peak (code will be AE in 4012)
73	Low to High
	Summer Off-Peak (code will be AC in 4012)
74	Low to Medium
	Summer Semi-Peak (code will be AB in 4012)
75	Low to Moderate
	Winter Off-Peak (code will be AH in 4012)

**Segment:** **MEA** Measurements (for THERMS USED)

**Position:** 059

**Loop:** IT1 Optional

**Level:** Detail:

**Usage:** Optional

**Max Use:** 40

**Purpose:** To specify total therms used

(See Figures Appendix for example of use of C001)

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

2 If MEA05 is present, then MEA04 is required.

3 If MEA06 is present, then MEA04 is required.

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

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

**Notes:**

**Data Element Summary**

Ref.	Data Element	Name	Attributes
MEA02	738	<b>Measurement Qualifier</b> Code identifying a specific product or process characteristic to which a measurement applies UG Multiplier This indicates that MEA03 will contain the usage therms multiplier.	O ID 1/3
MEA03	739	<b>Measurement Value</b> The value of the measurement The numeric value of the therm multiplier. If no multiplier, the value will be '1'.	X R 1/20
MEA04	C001	<b>Composite Unit of Measure</b> To specify composite unit of measure (See Figures of Appendix for examples of use)	X
Must Use	C00101	355 <b>Measurement Value</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken TD Therms	M ID 2/2
Rec	MEA05	740 <b>Range Minimum</b> The value specifying the minimum of the measurement range Minimum Therms Used	X R 1/20
Rec	MEA06	741 <b>Range Maximum</b> The value specifying the maximum of the measurement range Total Therms Used	X R 1/20
	MEA07	935 <b>Measurement Significance Code</b> Code used to benchmark, qualify or further define a measurement value 51 Total The value in MEA06 represents the total therms usage.	O ID 2/2

**Segment:** **REF** **Reference Identification (SERVICE DELIVERY POINT)**

**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.

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

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

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

**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification LU Location Number	M ID 2/3
				Indicates that REF03 will contain the SDP (Service Delivery Point) code.
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content Service Delivery Point (SDP). SDGE will send '1016609' + premise ID + service point (no spaces).	X AN 1/80

**Segment:** **REF** **Reference Identification (METER NUMBER)**

**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.

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

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

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

**Comments:**

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
<b>Must Use</b>	<b>REF01</b>	<b>128</b>	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification MG Meter Number	<b>M ID 2/3</b>
				Indicates that REF02 will contain the SDGE meter number.
	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier SDGE Meter Number (8-digits).	<b>X AN 1/30</b>



**Segment:** **REF** Reference Identification (RATE CODE)

**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.

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

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

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

**Comments:**

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
<b>Must Use</b>	<b>REF01</b>	<b>128</b>	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification NH Rate Card Number	<b>M ID 2/3</b>
			Indicates that REF02 will contain the SDGE Rate Code.	
	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier SDGE Rate Code.	<b>X AN 1/30</b>

**Segment:** **REF** **Reference Identification (OLD METER NUMBER)**

**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.

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

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

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

**Comments:**

**Notes:** This will only be present if the invoice covers a period which involves a meter change.  
Use this in conjunction with DTM01 of '514'.

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Indicates that REF02 will contain the Old SDGE Meter Number.	M ID 2/3
			46 Old Meter Number Identifies meters being removed	
	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Old SDGE Meter Number (8-digits).	X AN 1/30

**Segment:** **DTM** **Date/Time Reference**

**Position:** 150

**Loop:** IT1 Optional

**Level:** Detail:

**Usage:** Optional

**Max Use:** 10

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

**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:**

**Comments:**

**Notes:** This segment is required for all services.

**Data Element Summary**

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Must Use	DTM01	374	<b>Date/Time Qualifier</b>	M ID 3/3
			Code specifying type of date or time, or both date and time	
		150	Service Period Start	
		151	Service Period End	
		514	Transferred	
			Exchanged meter read date. This is used in conjunction with REF01 '46' when a meter has been replaced during a billing period.	
	DTM02	373	<b>Date</b>	X DT 8/8
			Date expressed as CCYYMMDD	
			If DTM01 = '150' this will contain the service period Start Date.	
			If DTM01 = '151' this will contain the service period End Date.	
			If DTM01 = '514' this will contain the date the old meter was removed.	

**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:**
- 1 If either SLN04 or SLN05 is present, then the other is required.
  - 2 If SLN07 is present, then SLN06 is required.
  - 3 If SLN08 is present, then SLN06 is required.
  - 4 If either SLN09 or SLN10 is present, then the other is required.
  - 5 If either SLN11 or SLN12 is present, then the other is required.
  - 6 If either SLN13 or SLN14 is present, then the other is required.
  - 7 If either SLN15 or SLN16 is present, then the other is required.
  - 8 If either SLN17 or SLN18 is present, then the other is required.
  - 9 If either SLN19 or SLN20 is present, then the other is required.
  - 10 If either SLN21 or SLN22 is present, then the other is required.
  - 11 If either SLN23 or SLN24 is present, then the other is required.
  - 12 If either SLN25 or SLN26 is present, then the other is required.
  - 13 If either SLN27 or SLN28 is present, then the other is required.

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

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

**Notes:** Each SLN loop will contain only one SAC and TXI. Multiple charges/allowances require multiple SLN loops.  
 Each SLN loop will contain only one SAC and TXI. Multiple charges/allowances require multiple SLN loops.

**Data Element Summary**

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

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

**Position:** 230

**Loop:** SLN Optional

**Level:** Detail:

**Usage:** Optional

**Max Use:** 25

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

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
  - 2 If either SAC03 or SAC04 is present, then the other is required.
  - 3 If either SAC06 or SAC07 is present, then the other is required.
  - 4 If either SAC09 or SAC10 is present, then the other is required.
  - 5 If SAC11 is present, then SAC10 is required.
  - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
  - 7 If SAC14 is present, then SAC13 is required.
  - 8 If SAC16 is present, then SAC15 is required.

- Semantic Notes:**
- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
  - 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
  - 3 SAC08 is the allowance or charge rate per unit.
  - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
  - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
  - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
  - 7 SAC16 is used to identify the language being used in SAC15.

- Comments:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
  - 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

**Notes:** Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

**Data Element Summary**

Ref. Des.	Data Element	Name	Attributes
Must Use	SAC01	248 Allowance or Charge Indicator	M ID 1/1
		C Charge	The amount in SAC05 should be included when summing the invoice total.
		N No Allowance or Charge	The amount in SAC05 should be ignored when summing the invoice total. Detail is given for INFORMATION ONLY.
SAC03	559	Agency Qualifier Code	X ID 2/2
		EU Electric Utilities	Use this code until the DM for "UT" code is approved.
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X AN 1/10
		Agency maintained code identifying the service, promotion, allowance, or charge	

		SDGE will provide a list of the UIG SAC04 codes that we will use.	
<b>SAC05</b>	<b>610</b>	<b>Amount</b>	<b>O N2 1/15</b>
		Monetary amount	
		The amount may be either positive or negative. If negative, the minus sign must be transmitted.	
<b>SAC08</b>	<b>118</b>	<b>Rate</b>	<b>O R 1/9</b>
		Rate expressed in the standard monetary denomination for the currency specified	
<b>SAC09</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b>	<b>X ID 2/2</b>
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		EA	Each
		K1	Kilowatt Demand
			Represents potential power load measured at predetermined intervals
		KH	Kilowatt Hour
<b>SAC10</b>	<b>380</b>	<b>Quantity</b>	<b>X R 1/15</b>
		Numeric value of quantity	
		NOTE: When using with unmetered services such as street lights, this quantity will represent the number of the type of lights as described in SAC15.	
<b>SAC15</b>	<b>352</b>	<b>Description</b>	<b>X AN 1/80</b>
		A free-form description to clarify the related data elements and their content	
		SDGE description of the charges as specified with the code in SAC04.	
		NOTE: When using with unmetered services such as street lights, this description will contain the size, type, and class of lights.	

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

**Position:** 010

**Loop:**

**Level:** Summary:

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify the total invoice discounts and amounts

**Syntax Notes:**

**Semantic Notes:**

- 1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
- 2 TDS02 indicates the amount upon which the terms discount amount is calculated.
- 3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4 TDS04 indicates the total amount of terms discount.

**Comments:**

- 1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

**Notes:**

TDS01 is the total amount due for this invoice and must equal the algebraic sum of the amounts in the TXI02 (where TXI07 = A) and SAC05 (where SAC01 = C) segments. If this amount is negative, send the minus sign.”

**Data Element Summary**

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

**Segment:** **CTT Transaction Totals**

**Position:** 070

**Loop:**

**Level:** Summary:

**Usage:** Optional

**Max Use:** 1

**Purpose:** To transmit a hash total for a specific element in the transaction set

**Syntax Notes:** 1 If either CTT03 or CTT04 is present, then the other is required.

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

**Semantic Notes:**

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

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	
<b>Must Use</b>	<b>CTT01</b>	<b>354</b>	<b>Number of Line Items</b>	<b>M N0 1/6</b>
			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.

#### Data Element Summary

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
Must Use	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
Must Use	SE02	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