

**Massachusetts
Gas
Implementation
Guideline**

For
Electronic Data Interchange

TRANSACTION SET

810

LDC Invoice

Ver/Rel 004010

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>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
M	050	REF	LDC Account Number for Customer	M	12		
M	050	REF	Supplier Account Number for Customer	M	12		
	050	REF	Old LDC Account Number for Customer	O	12		
Dep	050	REF	LDC Billing Cycle	O	12		
LOOP ID - N1						200	
M	070	N1	LDC	M	1		
LOOP ID - N1						200	
M	070	N1	Supplier	M	1		
M	140	DTM	LDC Billing Date	M	10		

Detail:

	<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>
LOOP ID - IT1						200000	
	010	IT1	Invoice -- Account Level	O	1		
	040	TXI	Tax Information -- Account Level	O	10		
	150	DTM	Service Period Start & End	O	10		
LOOP ID - SAC						25	
	180	SAC	Service, Promotion, Allowance, or Charge Information -- Account Level	O	1		
LOOP ID - IT1						200000	
	010	IT1	Invoice -- Rate Level	O	1		
	120	REF	LDC Rate Code	O	>1		
	120	REF	Supplier Rate Code 1	O	>1		
	120	REF	Supplier Rate Code 2	O	>1		
	120	REF	Supplier Rate Amount	O	>1		
LOOP ID - SAC						25	
	180	SAC	Service, Promotion, Allowance, or Charge Information -- Rate Level	O	1		

Summary:

	<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>
M	010	TDS	Total Monetary Value Summary	M	1		
M	070	CTT	Transaction Totals	M	1		n1

Transaction Set Notes

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

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: ST*810*0000001

Data Element Summary

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

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Syntax Notes:
Semantic Notes:

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

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

Notes: BIG*19990201*19990201123500001***2048392934504**PR*00

Data Element Summary

Ref.	Data Element	Name	Attributes
M	BIG01	373 Date	M DT 8/8
		Date expressed as CCYYMMDD	
		The transaction creation date - the date that the data was processed by the sender's application system.	
M	BIG02	76 Invoice Number	M AN 1/22
		Identifying number assigned by issuer	
		A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time.	
C	BIG05	328 Release Number	C AN 1/30
		Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
		The cross-reference number originally transmitted in the 867 in the BPT02 must be sent in the BIG05 of the 810. Required unless BIG07 = "ME".	
M	BIG07	640 Transaction Type Code	M ID 2/2
		Code specifying the type of transaction	
		FB Final Bill	
		This is to designate this is a final bill being sent for this customer from the non-billing party.	
		ME Memorandum	
		Used to signify that no usage matching the BIG05 value is forthcoming.	
		PR Product (or Service)	
		This is to indicate this is a regular service period bill from the non-billing party.	
M	BIG08	353 Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set	
		00 Original	
		01 Cancellation	
		Cancels an entire invoice/transaction	

Segment: **REF** LDC Account Number for Customer
Position: 050
Loop:
Level: Heading
Usage: Mandatory
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: REF*12*39205810578

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 12 Billing Account LDC assigned account number for end use customer	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 Account Number	M AN 1/30

Segment: **REF** Supplier Account Number for Customer
Position: 050
Loop:
Level: Heading
Usage: Mandatory
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: REF*11*395871290

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 11 Account Number Supplier assigned account number for end use customer	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 Account Number	M AN 1/30

Segment: **REF** Old LDC Account Number for Customer
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: This segment is used at the discretion of each LDC. Please check with your LDC to see if they are using this segment or not.
REF*45*1105687500

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 45 Old Account Number LDC's previous account number for the customer.	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 LDC's previous account number for the customer.	M AN 1/30

Segment: **REF** LDC Billing Cycle
Position: 050
Loop:
Level: Heading
Usage: Optional (Dependent)
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: Required unless showing an adjustment that does not relate to a billing cycle.
REF*BF*21

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			BF Billing Center Identification	
			LDC's billing cycle	
M	REF02	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			LDC's Billing Cycle Number	

Segment: N1 LDC
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
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.
Notes: N1*8S*LDC COMPANY*1*007909411**41 (as Sender)
 N1*8S*LDC COMPANY*9*0079094110001**41 (as Sender)

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) LDC	M ID 2/3
M	N102	93 Name Free-form name This is the LDC's name.	M AN 1/60
M	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	M ID 1/2
M	N104	67 Identification Code Code identifying a party or other code This is the DUN & Bradstreet Number with or without the +4.	M AN 2/80
M	N106	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 41 Submitter	M ID 2/3

Segment: N1 Supplier
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
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.
Notes: N1*SJ*ESP COMPANY*9*0079094220001**40 (as Receiver)
 N1*SJ*ESP COMPANY*1*007909422**40 (as Receiver)

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		SJ Service Provider	
		Supplier	
M	N102	93 Name	M AN 1/60
		Free-form name	
		This is the Supplier's name.	
M	N103	66 Identification Code Qualifier	M ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		1 D-U-N-S Number, Dun & Bradstreet	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
M	N104	67 Identification Code	M AN 2/80
		Code identifying a party or other code	
		This is the DUN & Bradstreet Number with or without the +4.	
M	N106	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		40 Receiver	

Segment: **DTM** LDC Billing Date
Position: 140
Loop:
Level: Heading
Usage: Mandatory
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:

DTM*434*20000115

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier	Code specifying type of date or time, or both date and time 434 Statement Date which the invoice was generated.	M ID 3/3
M	DTM02	373	Date	Date expressed as CCYYMMDD	M DT 8/8

Segment: **IT1 Invoice -- Account Level**
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: This IT1 Loop is used to convey charges and taxes that apply to the entire account. IT1 Loops may be sent in any order; however, there may be only ONE IT1 Account Loop. Required if there are charges associated with the account.

IT1*001*****SV*GAS*C3*ACCOUNT

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	IT101	350	Assigned Identification	M AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set Sequential line item counter.	
M	IT106	235	Product/Service ID Qualifier	M ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			SV	Service Rendered
M	IT107	234	Product/Service ID	M AN 1/48
			Identifying number for a product or service	
			GAS	Gas Service
M	IT108	235	Product/Service ID Qualifier	M ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			C3	Classification
M	IT109	234	Product/Service ID	M AN 1/48
			Identifying number for a product or service	
			ACCOUNT	Indicates that charges pertain to the account level.

Segment: **TXI Tax Information -- Account Level**
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 that apply to the account number appear in this IT1 loop.
 Required if there are tax charges associated with the account.
 TXI*ST*3.55*****A

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	TXI01	963	Tax Type Code Code specifying the type of tax ST State Sales Tax	M ID 2/2
M	TXI02	782	Monetary Amount Monetary amount Calculated Tax Amount. This amount must be signed if negative.	M R 1/18
M	TXI07	662	Relationship Code Code indicating the relationship between entities A Add The amount in the TXI02 is included when summing the invoice total.	M ID 1/1

Segment: **DTM** Service Period Start & End
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:

These fields are required if charges are based on current usage.

Do not use these dates to match the 867. Use the cross reference number provided in the 867 BPT02 segment to match the 810 BIG05 segment. The dates in this DTM segment will be the earliest start date and the latest end date from the PTD loops in the 867.
DTM*150*19991224
DTM*151*20000124

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 150 Service Period Start 151 Service Period End	M ID 3/3
M	DTM02	373	Date Date expressed as CCYYMMDD	M DT 8/8

Segment: SAC Service, Promotion, Allowance, or Charge Information -- Account Level
Position: 180
Loop: SAC Optional
Level: Detail
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 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: SAC*C**GU*PRB001*10000

Data Element Summary

Ref.	Data Element	Name	Attributes
M	SAC01	248 Allowance or Charge Indicator	M ID 1/1
		C Charge	
M	SAC03	559 Agency Qualifier Code	M ID 2/2
		GU Natural Gas Utilities	
M	SAC04	1301 Agency Service, Promotion, Allowance, or Charge Code	M AN 1/10
		Agency maintained code identifying the service, promotion, allowance, or charge	
		ADJ002 Corrections made to rate or consumption	
		ADJ008 Complete or partial dollar adjustment on customer statement	
		BUD001 Monthly budget bill amount due	
		LPC001 Late Payment Charge	

			PRB0001	Past Due Balance - Supplier Arrears	
				Used for prior billed amount.	
			TPI002	Energy Services Supplier initiated line items	
M	SAC05	610	Amount		M N2 1/15
			Monetary amount		
				This amount must be signed if negative. Whether an amount is negative is NOT determined by SAC01.	

Segment: **IT1 Invoice -- Rate Level**
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: This IT1 Loop is used to convey charges and taxes that apply at the rate level. IT1 Loops may be sent in any order.

IT1*002*****SV*GAS*C3*RATE

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	IT101	350	Assigned Identification	M AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
			Sequential line item counter.	
M	IT106	235	Product/Service ID Qualifier	M ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			SV Service Rendered	
M	IT107	234	Product/Service ID	M AN 1/48
			Identifying number for a product or service	
			GAS Gas Service	
M	IT108	235	Product/Service ID Qualifier	M ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			C3 Classification	
M	IT109	234	Product/Service ID	M AN 1/48
			Identifying number for a product or service	
			RATE Indicates that charges are summarized at a rate level.	

Segment: **REF** LDC 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:
Notes: REF*NH*B01

Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			NH Rate Card Number	
			Identifies a LDC rate class or tariff	
M	REF02	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			LDC Rate Code	

Segment: **REF** Supplier Rate Code 1
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: Requires use of Supplier Rate Code 2 OR Supplier Rate Amount
REF*RB*A29

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification RB Rate code number Supplier Rate Code for the customer	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 Supplier Rate Code 1	M AN 1/30

Segment: **REF** Supplier Rate Code 2
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: If this segment is used, Supplier Rate Code 1 must also be used. Cannot be used with Supplier Rate Amount.
REF*PL*A20

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification PL Price List Number Used to indicate a second price code for a Supplier account.	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 Supplier Rate Code 2	M AN 1/30

Segment: **REF** Supplier Rate Amount
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: Not supported by all LDC's. If this segment is used, Supplier Rate Code 1 must also be used. Cannot be used with Supplier Rate Code 2.
REF*PR*.0350

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification PR Price Quote Number Identifies a unit pricing category under a rate code	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 Supplier Rate Amount Example: .0350 for 3.5 cents	M AN 1/30

Segment: SAC Service, Promotion, Allowance, or Charge Information -- Rate Level
Position: 180
Loop: SAC Optional
Level: Detail
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 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: SAC*C**GU*BAS001*1680

Data Element Summary

Ref.	Data Element	Name	Attributes
M	SAC01	248 Allowance or Charge Indicator	M ID 1/1
		C Charge	
M	SAC03	559 Agency Qualifier Code	M ID 2/2
		GU Natural Gas Utilities	
M	SAC04	1301 Agency Service, Promotion, Allowance, or Charge Code	M AN 1/10
		Agency maintained code identifying the service, promotion, allowance, or charge	
		BAS001 Customer Charge	
		DMD001 Demand billing charge taken each month	
		ENC001 Charge for usage used	
M	SAC05	610 Amount	M N2 1/15
		Monetary amount	

This amount must be signed if negative. Whether an amount is negative is NOT determined by SAC01.

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: TDS*9875

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> TDS01	<u>Element</u> 610 <u>Amount</u> Monetary amount	M N2 1/15
Note: 9875 represents \$98.75 - there is an implied decimal.			

Segment: **CTT** Transaction Totals
Position: 070
Loop:
Level: Summary
Usage: Mandatory
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.

Notes: CTT*5

Data Element Summary

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

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

Syntax Notes:

Semantic Notes:

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

Notes: SE*35*00000001

Data Element Summary

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