

September 26, 2011

**VIA HAND DELIVERY & ELECTRONIC MAIL**

Luly E. Massaro, Commission Clerk  
Rhode Island Public Utilities Commission  
89 Jefferson Boulevard  
Warwick, RI 02888

**RE:     Docket 4270**  
**The Narragansett Electric Company, d/b/a National Grid**  
**Tariff Advice Filing Regarding the Terms and Conditions for Gas Marketers**  
**and the calculation of Gas Cost Recovery rates (R.I.P.U.C. NG-GAS No. 101,**  
**Sections 2, 5, and 6)**  
**Responses to Division Data Requests (Set 1)**

Dear Ms. Massaro:

Enclosed are ten (10) copies of National Grid's<sup>1</sup> responses to the Division's First Set of Data Requests issued on September 2, 2011, in the above-captioned proceeding.

Please be advised that due to the voluminous nature of the Company's attachment to Division 1-19, identified as Attachment DIV 1-19, the Company is providing the Commission with a CD-ROM containing this electronic file.

If you have any questions regarding this filing, please feel free to contact me at (401) 784-7667.

Very truly yours,



Thomas R. Teehan

Enclosures

cc:     Steve Scialabba, Division  
      Leo Wold, Esq.

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<sup>1</sup> The Narragansett Electric Company d/b/a National Grid.

## Certificate of Service

I hereby certify that a copy of the cover letter and / or any materials accompanying this certificate has been electronically transmitted, sent via U.S. mail or hand-delivered to the individuals listed below.



\_\_\_\_\_  
Joanne M. Scanlon

September 26, 2011

Date

**Docket No. 4270 – National Grid – Tariff Filing Regarding T&C for Gas Marketers and the calculation of GCR rates (R.I.P.U.C. NG-GAS No. 101, Sections 2, 5, and 6)**  
**Service List as of 9/13/11**

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Division 1-1

Request:

Re: page 2, lines 3-6, of witness Bauer's Direct Testimony, please:

- a. Indicate each party that participated in the collaborative discussions sponsored and managed by the New York State Public Service Commission in which rules governing customer transportation were negotiated and establish.
- b. Provide the time period over which those collaborative discussions occurred.
- c. Identify each party that participated in the collaborative discussions that represented consumer interests.

Response:

- a. The Company was only one of the invitees to the collaborative discussion sponsored by the New York Public Service Commission and as such does not have a list of attendees.
- b. In September 1998, the New York State Public Service Commission (NYPSC or Commission) issued a proposal with a draft set of rules, Uniform Business Practices (UBP), to provide for consistent business procedures for energy services companies (ESCOs or Marketers) and the electric and natural gas utilities across the state. The Commission issued an order in Case 98-M-1343 adopting the UBP in February 1999 and required each utility to submit a compliance filing by June 1999.

As the competitive retail energy market has evolved in New York, the UBP has been revisited and modified by the Commission to reflect changes in the market while continuing to provide consumer protections, streamlined business transactions and communications protocols between ESCOs and utilities. For example, Chapter 416 of the Laws of 2010, which was signed into law on August 13, 2010, amends the general business law (GBL) by adding a §349-d which specifies requirements ESCOs must comply with when marketing energy services, defined as natural gas or electricity, to residential customers and/or through door to door sales. The statute also required that the NYPSC develop an ESCO Consumers Bill of Rights. On December 17, 2010 the Commission issued an Order revising the UBP to include the ESCO Consumers Bill of Rights. At this time, the collaborative discussion proceedings are ongoing.

- c. Please see the Company's response to subpart b.

Prepared by or under the supervision of: Michael Bauer

Division 1-2

Request:

Re: page 2, lines 13-16, of witness Bauer's Direct Testimony, please:

- a. Identify all parties other than those listed who were invited to participate in the referenced collaborative meetings, and if known, the reasons they did not participate.
- b. Identify the persons in attendance at each of the meetings and the parties with whom they were affiliated.

Response:

- a. All of the active natural gas suppliers attended the collaborative meetings and participated. A list of the companies and attendees is set forth in subpart (b)
- b. In addition to National Grid personnel from Customer Service, Gas Supply and Regulatory, the following Marketers and natural gas suppliers attended the collaborative sessions:

Debra Bateman – Hess Corp  
Cheryl Macena – Hess Corp  
Dave Healey – Santa Buckley  
Tim Costello – Santa Buckley  
Jon Tyles – Glacial Energy  
Eric Nickulas – Glacial Energy  
Roberta Ortiz – Shell  
Karen Merrill – Metromedia  
Laura Hill – Metromedia  
Theresa Ringenbach – Direct Energy  
Tana Ream – Sprauge Energy  
Dan Smith – Sprauge Energy

Prepared by or under the supervision of: Michael Bauer

Division 1-3

Request:

Re: page 4, lines 7-9, for National Grid's current fiscal year to date and for each of the three prior fiscal years please:

- a. Provide the Companies total number of transportation service customers by rate classification by month;
- b. Document all movements of customers to and from marketers by month.

Response:

- a.-b. See Attachment DIV 1-3.

Prepared by or under the supervision of: Juliana Griffiths

Provide the companies total number of transportation service customers by rate classification by month														
Year	2008-2009	Sep-2008	Oct-2008	Nov-2008	Dec-2008	Jan-2009	Feb-2009	Mar-2009	Apr-2009	May-2009	Jun-2009	Jul-2009	Aug-2009	
	FT-1 Medium-22EN	385	391	392	395	394	393	394	394	400	413	416	418	
	FT-2 Medium-2221	410	412	466	489	496	504	517	525	556	596	602	607	
	FT-1 LLF Large-33EN	170	171	171	173	174	174	176	176	175	177	177	177	
	FT-2 LLF Large-3321	66	66	86	97	97	97	99	110	112	118	119	122	
	FT-1 LLF Extra-large-34EN	28	28	28	28	28	28	28	28	28	28	28	29	
	FT-2 LLF Extra-large-3421	1	1	1	1	1	1	1	1	2	2	2	2	
	FT-1 HLF Large-23EN	63	63	63	64	64	65	66	66	67	67	66	65	
	FT-2 HLF Large-2321	17	17	20	20	20	20	21	21	25	26	26	27	
	FT-1 HLF Extra-large-24EN	65	65	65	67	67	67	68	69	70	69	69	70	
	FT-2 HLF Extra-large-2421	2	2	3	5	5	5	5	5	5	4	4	4	
	<b>Total Transporting Customers</b>	<b>1207</b>	<b>1216</b>	<b>1295</b>	<b>1339</b>	<b>1346</b>	<b>1354</b>	<b>1375</b>	<b>1395</b>	<b>1440</b>	<b>1500</b>	<b>1509</b>	<b>1521</b>	
Year	2009-2010	Sep-2009	Oct-2009	Nov-2009	Dec-2009	Jan-2010	Feb-2010	Mar-2010	Apr-2010	May-2010	Jun-2010	Jul-2010	Aug-2010	
	FT-1 Medium-22EN	422	423	427	426	426	426	429	430	433	435	438	438	
	FT-2 Medium-2221	610	611	681	720	751	761	771	798	819	836	850	861	
	FT-1 LLF Large-33EN	177	177	178	181	181	181	181	183	183	183	183	183	
	FT-2 LLF Large-3321	122	119	127	131	131	133	133	134	136	136	136	138	
	FT-1 LLF Extra-large-34EN	29	30	32	32	33	33	33	33	33	33	33	33	
	FT-2 LLF Extra-large-3421	2	2	4	4	4	4	4	4	4	4	4	5	
	FT-1 HLF Large-23EN	65	65	65	67	68	68	68	68	68	68	68	68	
	FT-2 HLF Large-2321	28	28	29	28	18	20	21	24	25	26	27	28	
	FT-1 HLF Extra-large-24EN	70	71	71	70	70	70	70	71	71	71	71	71	
	FT-2 HLF Extra-large-2421	4	4	4	4	6	7	7	7	7	7	7	7	
	<b>Total Transporting Customers</b>	<b>1529</b>	<b>1530</b>	<b>1618</b>	<b>1663</b>	<b>1688</b>	<b>1703</b>	<b>1717</b>	<b>1750</b>	<b>1779</b>	<b>1799</b>	<b>1817</b>	<b>1832</b>	
Year	2010-2011	Sep-2010	Oct-2010	Nov-2010	Dec-2010	Jan-2011	Feb-2011	Mar-2011	Apr-2011	May-2011	Jun-2011	Jul-2011	Aug-2011	Sep-2011
	FT-1 Medium-22EN	434	433	442	451	454	453	456	457	458	459	460	461	464
	FT-2 Medium-2221	864	888	937	965	987	1001	1011	1022	1032	1040	1046	1062	1069
	FT-1 LLF Large-33EN	183	182	184	185	184	186	187	187	186	186	186	187	188
	FT-2 LLF Large-3321	141	141	141	142	142	144	145	145	146	146	146	146	147
	FT-1 LLF Extra-large-34EN	33	33	35	35	33	33	35	35	35	35	35	35	35
	FT-2 LLF Extra-large-3421	5	5	5	5	5	5	5	5	5	5	5	5	5
	FT-1 HLF Large-23EN	67	67	66	66	66	66	66	66	66	66	66	66	66
	FT-2 HLF Large-2321	28	29	31	32	32	34	34	32	30	32	32	33	33
	FT-1 HLF Extra-large-24EN	71	71	74	74	76	76	76	76	76	76	76	76	76
	FT-2 HLF Extra-large-2421	7	7	9	9	9	9	9	8	8	8	8	8	8
	<b>Total Transporting Customers</b>	<b>1833</b>	<b>1856</b>	<b>1924</b>	<b>1964</b>	<b>1988</b>	<b>2007</b>	<b>2024</b>	<b>2033</b>	<b>2042</b>	<b>2053</b>	<b>2060</b>	<b>2079</b>	<b>2091</b>

[illegible]

Division 1-4

Request:

Re: page 4, lines 9-11, of witness Bauer's Direct Testimony, please:

- a. Identify the specific provisions of the Company's existing tariff that permit the Company to sell needed inventory to Marketers;
- b. Identify each instance in the Company's current fiscal year to date and in the three prior fiscal years in which the Company sold needed inventory to a marketer, the date of the transaction, volumes sold, and the price at which such inventory was sold;
- c. Provide the documents, data, and other information upon which the Company relies to support its representation that "Marketers have found it difficult to manage and administer the process through which the Company can sell needed inventories to Marketers.
- d. Provide a detailed description of the complexities of the referenced process from the Company's perspective.
- e. Document the Company's assessment of its actual costs for administration of the referenced provisions for selling needed inventory to marketers for the Company's current fiscal year to date and for each of the three prior fiscal years.

Response:

- a. Please see RIPUC NG-GAS No 101, Section 6, Schedule C, Sheets 22-24, Subpart 3.02.4.
- b. The Company has not sold any inventory to Marketers in the past three years.
- c. The issue was raised by the Marketers at the collaborative meetings. As an example, in the month of February 2011 one Marketer had a delivery requirement 17,254 Dth more than what the customer used making the Marketer's storage balance increase by that amount. Another customer with the same Marketer that same month had a delivery requirement that was 1,017 Dth more than what they used and therefore lowered the Marketer's storage inventory by that amount. These types of swings make it increasingly difficult for Marketers to manage their storage balances.



Division 1-4 (continued)

- d. From the Company's perspective the current process has a number of complexities that impact management of storage. For example, the Maximum Service Quantity-Underground (MSQ-U) can be adjusted on both a daily and/or monthly basis. On a daily basis, the current Marketer system compares the Marketers Forecasted Daily Usage (FDU) to the volume of gas that the Marketer has "flowed" to the city gate. If the FDU is greater than the amount of flowed gas, the difference is taken out of the MSQ-U or the Marketer will nominate a withdrawal from the MSQ-U to meet the FDU. In each instance, a Daily Imbalance Adjustment (DIA) is levied against the MSQ-U inventory. A DIA can only be a negative amount (i.e.: a reduction to the MSQ-U) since Marketers are paid for over nomination, and the over nomination gas amount is flowed through the system.

The process is different on a monthly basis as currently the Marketer system compares what the Marketer actually delivered to what was used by the Marketer's customers. The difference between these volumes, either positive or negative, is added to or deducted from the MSQ-U inventory level for the Marketer.

These processes are impacted by the fact that there are a number of limitations in the current Marketer system. For example, if the MDQ-U inventory for a Marketer becomes negative, the Marketer will need to nominate and injection or withdrawal to MSQ-U to bring the inventory level to a positive level. However, the current Marketer system does not recognize a Marketer's injection nomination if the inventory balance is negative, and as a result the Company has had to manually track injection nominations and manually adjust the Marketer's MSQ-U levels until they are positive. After this has occurred, the Marketer may resume nominating on the Company's Electronic Bulletin Board.

These types of manual workarounds not only can create errors, but a major reason why the Company is seeking to introduce new systems for Marketers.

- e. Please see the Company's response to subpart (b).

Division 1-5

Request:

Re: page 4, lines 15-16, of witness Bauer's Direct Testimony, please indicate whether the Company intends to provide the referenced "updated" charge to the Commission and the Division each month for review prior to its application, and if not, indicate the authority upon which it relies to make such monthly rate changes without prior Commission review.

Response:

The Company is willing to file its updated FT-2 variable charge each month with the Commission and the Division similar to the process that is currently in place for the Transitional Sales Service surcharge. (See RIPUC NG-GAS 101, Section 5, Schedule H. Sheet 3, Subpart 4.1).

Prepared by or under the supervision of: Michael Bauer

Division 1-6

Request:

Re: page 4, lines 16-20, of witness Bauer's Direct Testimony, please:

- a. Provide the Company's assessment of changes in cash-flow that would result from the change from having Marketers purchase an allocated amount of inventory at the average inventory price from the Company in early November of each year to a monthly cash-out based on the Company's cost of supply in inventory.
- b. Explain why Marketers should be insulated from the uncertainties associated with advance planning for winter gas supply requirements by allowing them monthly cash-outs.
- c. Assuming the proposed process of monthly cash-outs had been in-place during the winter of 2010-2011, provide the Company's best calculation of the monthly cash-out price for each month of that winter season, as well as the inventory price that was charge to Marketers in November of 2010.
- d. Verify that the cash-out price would be applied on imbalances or storage deficiencies identified after the end of each month. If this is incorrect, please explain the manner in which the volumes to be cash-out would be determined and when the cost of cashed-out volumes would be billed to marketers.

Response:

- a. The Company would expect that the impact on cash flow from moving to a monthly cash-out methodology would be minimal. As noted in the testimony of Mr. John F. Nestor, III in Docket No. 4283 the overall FT-2 gas costs are less than 1.5% of total gas costs. In addition, one of the underlying drivers for implementing a monthly cash-out based on the Company's inventory price is to better align rates with costs since the recent overall experience with the current allocation methodology has been extremely volatile resulting an under-recovery of \$1,170,915 in 2009 and an over-recovery of \$1,015,480 in 2008. (Docket No. 4283, Testimony of John F. Nestor, III at 7-9) Because of these wide swings, the accuracy of a comparison with historical cash-flows would be of limited value.

Division 1-6 (continued)

- b. The cash out methodology is not based on insulating Marketers from any uncertainties associated with advanced planning for winter as supply. Rather, as noted above in subpart (a) the purpose of moving to a cash-out methodology is to better align rate recovery with gas costs.
- c. The inventory cash-out price for November 2010 was \$ 4.619.  
The monthly cash-out would be
- |               |                    |                    |
|---------------|--------------------|--------------------|
| November 2010 | Undertake \$4.658  | Overtake \$5.6196  |
| December 2010 | Undertake \$7.9431 | Overtake \$11.8804 |
| January 2011  | Undertake \$8.4105 | Overtake \$11.9632 |
| February 2011 | Undertake \$6.3388 | Overtake \$ 7.2136 |
| March 2011    | Undertake \$5.1623 | Overtake \$6.2639  |
| April 2011    | Undertake \$4.7242 | Overtake \$5.0464  |
- d. The cash-out price would be applied on imbalances identified after the end of each month and billed approximately on the 5<sup>th</sup> business day of the new month. Imbalances between customer Gas Usage and the Forecasted Daily Usage (FDU) adjusted for actual weather will be cashed out at the average of the Algonquin and Tennessee city gate delivered monthly indexes. The Company will prorate the imbalance amount between the months billed based on the customer's base load and heating use factors and apply the average monthly index to the corresponding month's imbalance quantity.

Prepared by or under the supervision of: John F. Nestor, III and Michael A. Bauer

Division 1-7

Request:

Re: page 5, lines 1-3, of witness Bauer's Direct Testimony, please:

- a. Identify the limitations on winter withdrawals that the Company faces for the coming 2011-2012 winter period;
- b. Identify the limitations on winter withdrawals that marketer in RI would face for the coming 2011-2012 winter period under the Company's existing tariff provisions;
- c. Provide the data, studies and analyses upon which the Company relies to support the reasonableness of the proposed "monthly limits and allowed amounts."

Response:

- a. The storage limitations that apply are related to the inventory rule curve which the marketers are required to abide by.
- b. The monthly limitations for Marketers are as follows:

It is a twice a month rule curve where the percentages are given for the 1st and 15th of the month. For example as of December 1, 2011 the Marketers are required to be at or above 95%; and as of December 15th they can be at or above 86.5%. This would result in the following percentages on the monthly dates:

Subpart b continued:

11/01/2011	95.0%
11/15/2011	95.0%
12/01/2011	95.0%
12/15/2011	86.5%
01/01/2012	76.1%
01/15/2012	65.8%
02/01/2012	53.4%
02/15/2012	43.5%
03/01/2012	32.9%
03/15/2012	30.2%
04/01/2012	26.9%

Division 1-7 (continued)

Subpart b continued:

04/15/2012	33.9%
05/01/2012	42.0%
05/15/2012	49.2%
06/01/2012	57.9%
06/15/2012	64.9%
07/01/2012	72.9%
07/15/2012	77.3%
08/01/2012	82.6%
08/15/2012	83.2%
09/01/2012	83.8%
09/15/2012	88.9%
10/01/2012	94.7%
10/15/2012	94.8%

- c. Please see Attachment DIV 1-7. The marketer must be at or above the levels indicated on the date.

Prepared by or under the supervision of: Michael Bauer

**Rhode Island Underground Storage Percentages**

<b>Date</b>	<b>Percentage</b>	
11/01/2011	95.00%	95.00%
11/15/2011	95.00%	
12/01/2011	95.00%	95.00%
12/15/2011	86.50%	
01/01/2012	76.10%	76.10%
01/15/2012	65.80%	
02/01/2012	53.40%	53.40%
02/15/2012	43.50%	
03/01/2012	32.90%	32.90%
03/15/2012	30.20%	
04/01/2012	26.90%	26.90%
04/15/2012	33.90%	
05/01/2012	42.00%	42.00%
05/15/2012	49.20%	
06/01/2012	57.90%	57.90%
06/15/2012	64.90%	
07/01/2012	72.90%	72.90%
07/15/2012	77.30%	
08/01/2012	82.60%	82.60%
08/15/2012	83.20%	
09/01/2012	83.80%	83.80%
09/15/2012	88.90%	
10/01/2012	94.70%	94.70%
10/15/2012	94.80%	

Division 1-8

Request:

Re: page 5, lines 3-5, of witness Bauer's Direct Testimony, please:

- a. Identify in the tariff the "demand charge" to which witness Bauer refers;
- b. Identify all customers to whom the referenced demand charge would apply;
- c. Document any change in the level of the referenced demand charge that would accompany implementation of the Company's proposals in this proceeding; and
- d. Provide the cost basis for any change in the referenced demand charges that the Company presently seeks or would expect to request within the next 12 months as a result of approval of the Company's proposals in this proceeding.

Response:

- a. The reference is to the FT-2 Demand Charge. Please see RIPUC No. 101 Section 6, Schedule C, Sheet 25 of the proposed tariff.
- b. The demand charge would apply to all FT-2 Suppliers.
- c. The impact of the proposed FT-2 demand charge is de minimus. Please see the Testimony of John F. Nestor, III in Docket No. 4283 at 7-8.
- d. Please see response to subpart (c).

Prepared by or under the supervision of: Michael Bauer



Division 1-9

Request:

Re: page 5, lines 8-13, of witness Bauer's Direct Testimony, please:

- a. Provide the formulae the Company would use to calculate an individual customer's design peak day requirements;
- b. Identify any and all differences in data and methodology that the Company would use for customers in each rate classification.
- c. Indicate whether the Company would make such calculations for all customers or just for those customers who presently take or request transportation service;
- d. Provide all information, data, studies, analyses, and other checks that the Company relies upon to verify the reasonableness of:
  - i. The formulae used to estimate individual customers' design day requirements;
  - ii. The results of design day peak calculations for individual customers.
- e. Indicate the tariff provisions under which the Company currently assigns peaking storage entitlements;
- f. For each type of capacity to be assigned (i.e., pipeline, underground storage, and peaking storage), indicate the manner in which capacity assignments would be differentiated for "grandfathered" and non-grandfathered FT-1 customers.

Response:

- a.  $\text{Peak Day} = \text{Daily Base Load} + (\text{Thermal Response} * \text{Design Heating Degree Days})$
- b. All customers would be categorized as high load factor or low load factor based on their weather sensitivity. Allocation of long haul capacity release, storage and peaking assets would be based on the appropriate customer category. See Attachment NG-JFN-7 in Docket No. 4283.

Division 1-9 (continued)

- c. All customers would be deemed either high load factor or low load factor but the calculation and allocation of capacity, storage and peaking assets would be applied to transportation customers.
- d.
  - i. The formulae used to estimate individual customers' design day requirements is following: (Thermal response X 68 HDD) + Daily baseload.
  - ii. This is the standard industry calculation for a customer's design day requirement. It multiplies the individual customer's thermal response by the design heating degree days and adds the base.
- e. Please see RIPUC No. 101, Section 6, Schedule C, Sheet 21, Subpart 3.021.
- f. For each type of capacity to be assigned (i.e., pipeline, underground storage, and peaking storage), indicate the manner in which capacity assignments would be differentiated for "grandfathered" and non-grandfathered FT-1 customers. Under the proposed tariff there would no longer be grandfathered capacity.

Prepared by or under the supervision of: Michael Bauer

Division 1-10

Request:

Re: page 5, lines 14-17, of witness Bauer's Direct Testimony, please:

- a. Provide the average annual load factor of each rate classification the Company presently serves in RI;
- b. For the winter of 2011-2012, provide all supporting data, analyses, studies, and assumptions for the Company's calculation of the ratio of average winter-day use for all classes of the same load factor type to the system average average winter-day use of the whole system:
  - i. For high load factor customers;
  - ii. For low load factor customers.

Response:

- a. Please see Attachment Division 1-10(a).
- b. (i) and (ii)  
Please see the Testimony of John F. Nestor, III in Docket No. 4283 at 12 and Attachment NG-JFN-1, Page 15.

Prepared by or under the supervision of: Leo A. Silvestrini and John F. Nestor, III

Annual Load Factor of each rate classification the Company presently serves in RI

Actual dth (including Firm Dual Fuel)	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Total	Nov-Apr	Average Annual Load Factor	
1012 Residential non-heat (1012)	26,623	28,811	34,396	42,196	66,230	83,970	81,663	74,518	63,482	44,319	36,385	30,500	613,093	412,060	<b>67.2%</b>	HLF
1247 Residential heat (1247)	361,990	381,590	477,314	1,025,124	2,218,528	3,254,673	3,321,016	2,820,353	2,064,032	1,028,248	586,268	419,588	17,958,724	14,703,725	<b>81.9%</b>	LLF
2107 C & I small (2107)	42,040	46,311	65,398	115,197	292,499	487,812	495,049	407,231	275,546	123,393	68,788	54,697	2,473,961	2,073,334	<b>83.8%</b>	LLF
2237 C & I medium sales (2237+2231)	83,546	95,243	113,374	193,412	374,817	555,026	570,584	494,524	353,832	201,217	120,094	121,735	3,277,405	2,542,195	<b>77.6%</b>	LLF
22EN C & I medium FT-1 (22EN)	29,752	29,611	44,696	61,779	114,485	116,328	113,624	86,157	68,251	34,922	34,237	26,402	760,243	560,623	<b>73.7%</b>	LLF
2221 C & I medium FT-2 (2221)	29,150	29,043	39,207	67,288	136,964	201,798	215,608	205,876	132,781	82,783	54,623	41,849	1,236,969	960,315	<b>77.6%</b>	LLF
3367 LLF large sales (3367)	2,183	19,128	20,028	40,756	85,060	116,985	149,243	116,982	90,764	30,687	26,599	10,961	709,376	599,791	<b>84.6%</b>	LLF
33EN LLF large FT-1 (33EN)	17,281	20,650	56,611	92,968	190,991	200,308	193,300	145,457	103,539	38,937	17,336	15,214	1,092,591	926,563	<b>84.8%</b>	LLF
3321 LLF large FT-2 (3321)	7,899	10,619	22,880	43,040	91,153	137,880	145,179	126,621	88,452	55,989	14,153	15,487	759,351	632,325	<b>83.3%</b>	LLF
3496 LLF XL sales (3496)	1,045	696	894	2,031	1,950	5,445	5,689	4,322	4,090	2,759	1,770	881	31,572	23,526	<b>74.5%</b>	LLF
34EN LLF XL FT-1 (34EN)	15,155	17,472	35,683	83,773	174,467	156,725	156,250	123,506	104,731	45,827	12,885	12,768	939,242	799,452	<b>85.1%</b>	LLF
3421 LLF XL FT-2 (3421)	868	1,845	1,560	4,530	8,084	11,060	15,081	11,614	8,526	3,841	2,005	2,063	71,077	58,895	<b>82.9%</b>	LLF
2367 HLF large sales (2367)	11,450	19,746	19,243	22,061	30,759	35,858	22,148	38,724	25,991	18,567	17,110	15,952	277,609	175,541	<b>63.2%</b>	HLF
23EN HLF large FT-1 (23EN)	36,597	37,308	36,782	42,068	62,569	61,042	61,697	52,273	45,009	35,881	31,477	25,870	528,571	324,657	<b>61.4%</b>	HLF
2321 HLF large FT-2 (2321)	13,004	13,003	14,432	17,620	23,830	30,595	29,778	29,366	24,528	18,634	15,697	15,021	245,507	155,717	<b>63.4%</b>	HLF
2496 HLF XL sales (2496)	17,061	14,664	11,070	14,225	36,967	35,072	18,843	24,074	17,184	14,335	12,683	12,210	228,388	146,365	<b>64.1%</b>	HLF
24EN HLF XL FT-1 (24EN)	358,307	369,203	369,203	396,160	477,085	480,029	476,373	452,613	408,779	351,634	365,278	329,704	4,834,367	2,691,039	<b>55.7%</b>	HLF
2421 HLF XL FT-2 (2421)	8,697	8,060	7,980	9,403	16,731	20,902	22,720	19,881	17,947	13,729	12,681	10,663	169,394	107,584	<b>63.5%</b>	HLF
Total	1,062,647	1,143,003	1,370,751	2,273,632	4,403,169	5,991,505	6,093,845	5,234,091	3,897,464	2,145,701	1,430,069	1,161,567	36,207,443	27,893,706	<b>77.0%</b>	LLF

Division 1-11

Request:

Re: page 6, lines 3-5, of witness Bauer's Direct Testimony, please:

- a. Explain the use of the term "portfolio" in the context of the referenced lines, and explain whose portfolio is being referenced (e.g., a Marketer's portfolio, the Company's portfolio, or some other portfolio;
- b. If a Marketer serves both high load factor and low load factor transportation service customers, for how many portfolios would assignments be made for the marketer.

Response:

- a. The term refers to National Grid's Rhode Island gas portfolio. Specifically, the assets in the portfolio that are used in serving and balancing our customers (capacity, storage and peaking assets)
- b. The assignment is based on the assets in the Rhode Island portfolio and they are allocated based on the customer's needs. For example, a residential heating customer will require more storage and peaking assets than a commercial manufacturer whose usage is basically uniform year round.

Prepared by or under the supervision of: Michael Bauer

Division 1-12

Request:

Re: page 6, lines 5-8, of witness Bauer's Direct Testimony, please provide the number of days each type of storage will be available for the winter of 2011-2012, including service from the Company's own peaking resources. If the number of days varies by storage service or contract within each type of storage, please detail all such variations.

Response:

Storage and Peaking will be available to Suppliers during each winter month. Please see the Company's Response to DIV 1-9 (b).

Prepared by or under the supervision of: Michael Bauer

Division 1-13

Request:

Re: page 6, lines 9-15, of witness Bauer's Direct Testimony, please:

- a. Is the phrase on line 10, "so they can provide quotes to customers," intended to suggest that marketers cannot presently provide quotes to customers?
- b. Explain in detail and provide documentation to support the manner in which the current tariff provisions inhibit marketers' ability to evaluate their costs to service a customer and how marketer's ability to evaluate such costs is differs substantially from the Company's ability to make similar evaluations.
- c. Please provide the information relating to "base and thermal use factors" that the Company has agreed to provide marketers, and state how and when the Company would update that information over time.

Response:

- a. That phrase is intended to describe the uses to which marketers would put the formula and the historic usage. It is not meant to suggest that Marketers cannot presently provide quotes to customers.
- b. The Company has not claimed that the current tariff provisions inhibit a Marketer's ability to evaluate their cost of service to customers. Rather the proposed changes were developed as part of a collaborative process designed to address issues and improve and simplify the existing processes. For example, because each customer will be assigned to a low or high load factor group, the Marketer's will know exactly how much capacity, storage and peaking assets will be assigned to the individual customers that they intend to serve.
- c. Base and thermal use factors are calculated on the account level (by customer) and based on that customer's usage. The base and thermal factors are updated annually.

Prepared by or under the supervision of: Michael Bauer

Division 1-14

Request:

Re: page 7, lines 4-8, of witness Bauer's Direct Testimony, please identify each instance in the Company's current fiscal year to date and in each of the three prior fiscal years in which a transportation service customer was moved to the Small C&I rate classification due to the customer's usage falling below the threshold for Medium C&I service.

Response:

There were no accounts reclassified from transportation to commercial small since 3/31/2008.

Prepared by or under the supervision of: Juliana Griffiths



Division 1-15

Request:

Re: page 7, lines 4-8, of witness Bauer's Direct Testimony:

- a. If the Company is willing to open its transportation service offerings to Small C&I customers would it also advocate opening transportation service options for Residential customers. If not, please explain why not.
- b. Provide the analyses upon which the Company relies to assess the impacts of opening transportation service to Small C&I customers on:
  - i. Its operations,
  - ii. Its costs of providing service (including, but not limited to its costs of administering transportation services),
  - iii. Its planning of facilities;
  - iv. Its gas supply planning.

Response:

- a. The Company would be willing to address the opening of transportation service to residential customers in a collaborative with Marketers and regulators (Division staff, Commission staff) similar to what was conducted with the Marketers in this case. However, it should be noted that the issue of opening transportation service to residential customers was discussed at the collaborative and none of the Marketer's indicated a willingness to serve the residential market at this time.
- b. (i) through (iv)

The Company viewed the opening of transportation service as the logical progression of opening the C&I market to competition. Operations, systems and processes are in place to handle the other C&I rate classes, and the Company thus does not perceive major impacts in those areas of opening transportation service to Small C&I customers.

Prepared by or under the supervision of: Michael Bauer

Division 1-16

Request:

Re: page 7, lines 4-8, of witness Bauer's Direct Testimony:

- a. Does National Grid presently provide consolidated billing for gas transportation service customers in RI or any other jurisdiction?
- b. If the Company does provide consolidated billing, please document the costs incurred per bill by National Grid to provide such services to marketers in RI and in its other jurisdictions.
- c. If the Company does not presently provide consolidated billing for marketers of transportation services in RI, would the Company be willing to provide such service if the availability of transportation services are expanded to:
  - i. Small C&I customers
  - ii. Residential customers

Response:

- a. National Grid does not provide consolidated billing at this time in Rhode Island, but it is offered in Massachusetts and New York.
- b. See subpart (a). The charges for consolidated billing in Massachusetts and New York are:

Massachusetts	\$ .97 (proposed)
New York	
KEDNY	\$ .76
KEDLI	\$ .65
Niagara Mohawk	\$ .50
- c. The Company would be willing to discuss providing consolidated billing in Rhode Island in a collaborative with the Marketers and regulators, where issues of specific billing requirements and cost recovery could be discussed.

Prepared by or under the supervision of: Michael Bauer

Division 1-17

Request:

Re: page 7, lines 12-20, of witness Bauer's Direct Testimony, please:

- a. Identify the number of Medium C&I FT-1 customers served by the Company in each month of the Company's current fiscal year to date and each month of the three prior fiscal years.
- b. Provide the monthly volumes of gas delivered to Medium C&I FT-1 customers by the Company in each month of the Company's current fiscal year to date and each month of the three prior fiscal years.
- c. Identify the specific "improvements to the FT-2 service" that make access to FT-1 service unnecessary.
- d. Explain why the purport "improvements" in FT-2 service do not negate the need for FT-1 service for:
  - i. Large C&I customers
  - ii. Extra Large C&I customers

Response:

- a. Please see Attachment DIV 1-17.
- b. Please see subpart (a).
- c. It is the Company's view that FT-1 service still provides benefits to large commercial customers that require telemetry to manage balancing. However, there are still issues concerning the establishment and maintenance of telemetry for billing and by simplifying the FT-2 service, this service should be more attractive to many of the smaller FT-1 customers.
- d. (i) and (ii)

Please see subpart (c).

Prepared by or under the supervision of: John F. Nestor, III  
Juliana Griffiths and Michael A. Bauer.

	FY 2009		
Medium FT-1 - Rate 22EN		<b>Apr-08</b>	<b>#</b>
(a)	Customers		383
(b)	Therms		843,730
	FY 2010		
Medium FT-1 - Rate 22EN		<b>Apr-09</b>	
(a)	Customers		393
(b)	Therms		-117,503
	FY 2011		
Medium FT-1 - Rate 22EN		<b>Apr-10</b>	
(a)	Customers		429
(b)	Therms		500,047
	FY 2012 to date		
Medium FT-1 - Rate 22EN		<b>Apr-11</b>	
(a)	Customers		430
(b)	Therms		682,508

	FY 2009		
Medium FT-1 - Rate 22EN		<b>May-08</b>	<b>#</b>
(a)	Customers		383
(b)	Therms		117,202
	FY 2010		
Medium FT-1 - Rate 22EN		<b>May-09</b>	
(a)	Customers		400
(b)	Therms		326,625
	FY 2011		
Medium FT-1 - Rate 22EN		<b>May-10</b>	
(a)	Customers		431
(b)	Therms		414,600
	FY 2012 to date		
Medium FT-1 - Rate 22EN		<b>May-11</b>	
(a)	Customers		429
(b)	Therms		349,222

	FY 2009		
Medium FT-1 - Rate 22EN		<b>Jun-08</b>	<b>#</b>
(a)	Customers		384
(b)	Therms		249,589
	FY 2010		
Medium FT-1 - Rate 22EN		<b>Jun-09</b>	
(a)	Customers		408
(b)	Therms		321,580
	FY 2011		
Medium FT-1 - Rate 22EN		<b>Jun-10</b>	
(a)	Customers		431
(b)	Therms		300,699
	FY 2012 to date		
Medium FT-1 - Rate 22EN		<b>Jun-11</b>	
(a)	Customers		432
(b)	Therms		342,366

	FY 2009		
Medium FT-1 - Rate 22EN		<b>Jul-08</b>	<b>#</b>
(a)	Customers		384
(b)	Therms		927,072
	FY 2010		
Medium FT-1 - Rate 22EN		<b>Jul-09</b>	
(a)	Customers		414
(b)	Therms		286,664
	FY 2011		
Medium FT-1 - Rate 22EN		<b>Jul-10</b>	
(a)	Customers		432
(b)	Therms		274,299
	FY 2012 to date		
Medium FT-1 - Rate 22EN		<b>Jul-11</b>	
(a)	Customers		432
(b)	Therms		264,020

	FY 2009		
		<b>Aug-08</b>	<b>#</b>
Medium FT-1 - Rate 22EN			
(a)	Customers		383
(b)	Therms		589,924
	FY 2010		
		<b>Aug-09</b>	
Medium FT-1 - Rate 22EN			
(a)	Customers		413
(b)	Therms		597,232
	FY 2011		
		<b>Aug-10</b>	
Medium FT-1 - Rate 22EN			
(a)	Customers		433
(b)	Therms		297,520
	FY 2012 to date		
		<b>Aug-11</b>	
Medium FT-1 - Rate 22EN			
(a)	Customers		432
(b)	Therms		300,270



	FY 2009		
Medium FT-1 - Rate 22EN		<b>Sep-08</b>	<b>#</b>
(a)	Customers		391
(b)	Therms		-642,266
	FY 2010		
Medium FT-1 - Rate 22EN		<b>Sep-09</b>	
(a)	Customers		425
(b)	Therms		48,564
	FY 2011		
Medium FT-1 - Rate 22EN		<b>Sep-10</b>	
(a)	Customers		421
(b)	Therms		296,108
	FY 2012 to date		
Medium FT-1 - Rate 22EN			
(a)	Customers		
(b)	Therms		

	FY 2009		
Medium FT-1 - Rate 22EN			
(a)	Customers		406
(b)	Therms		307,496
	FY 2010		
Medium FT-1 - Rate 22EN			
(a)	Customers		427
(b)	Therms		539,878
	FY 2011		
Medium FT-1 - Rate 22EN			
(a)	Customers		419
(b)	Therms		446,962
	FY 2012 to date		
Medium FT-1 - Rate 22EN			
(a)	Customers		
(b)	Therms		

Nov-09  
431  
555,832

Nov-10  
423  
617,791

Medium FT-1 - Rate 22EN	FY 2012 to date
(a)	Customers
(b)	Therms

Dec-09Dec-10

Medium FT-1 - Rate 22EN	FY 2012 to date
(a)	Customers
(b)	Therms

**Jan-10**

Jan-11

Medium FT-1 - Rate 22EN	FY 2012 to date
(a)	Customers
(b)	Therms

392  
1,749

427  
1,022,838

430  
1,136,237

Customers  
Therms

**Mar-10**

**Mar-11**

Medium FT-1 - Rate 22EN	FY 2012 to date
(a)	Customers
(b)	Therms

Division 1-18

Request:

Re: page 8, lines 8-11, of witness Bauer's Direct Testimony, please:

- a. Detail the methodology and data to be used to identify imbalances caused by errors in the daily weather forecast;
- b. Is it presumed that all marketers will be relying on the same forecasts in making their nominations?
- c. Provide the rationale for applying monthly index prices to any remaining imbalance volumes.

Response:

- a. Daily delivery requirements are based on forecasted weather. As such, forecasted weather may cause deliveries to be more or less than what is required for a Marketer's customer pool. It is proposed that the delta between the forecasted weather and actual weather will be calculated and cashed-out on a daily balancing, in effect keeping both the Supplier and the Company whole.
- b. Yes. The Company will supply the Marketers with a five day weather forecast. In addition, the Company will calculate the Marketer's next day delivery requirement based on that day's forecasted weather.
- c. Even though the Company is calculating the Market's delivery requirements using forecasted weather and trueing up to actual weather, there is still likely to be some amount of difference between the customers metered usage and the Marketer's actual deliveries. That imbalance will need to be cashed out on a monthly basis.

Prepared by or under the supervision of: Michael Bauer



Division 1-19

Request:

Re: page 8, line 14, through page 9, line 2, of witness Bauer's Direct Testimony, please:

- a. Identify all information that the Company will receive through EDI transactions;
- b. Provide copies of the regulatory policies and/or terms and conditions that govern the use of EDI transactions in the other jurisdictions in which National Grid provides gas transportation services.

Response:

- a. The Company proposes using EDI to facilitate the transfer of data between the Company and Marketers that is normally done in high volumes. The EDI transactions to be used include the 814 enrollment drop and change transactions as well as the 867 historical and monthly usage transactions.
- b. Each state has developed different EDI standards. In New York, the Public Service Commission has developed EDI standards that are set forth in the Business Process, Data Dictionaries and Implementation Guides that are available on the Commission's web site. On the other hand, Massachusetts also has developed their own EDI standards that the Company plans to generally follow in Rhode Island. Since, all of the gas suppliers in Rhode Island also do business in Massachusetts it is logical to use the same standard. Please see Attachment DIV 1-19.

Prepared by or under the supervision of: Michael Bauer

The Narragansett Electric Company  
d/b/a National Grid  
Docket No. 4270  
Tariff Advice Filing Regarding  
Changes in Terms and Conditions for Gas Marketers  
Responses to Division Data Requests (Set 1)  
Issued on September 2, 2011

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Attachment DIV 1-19

Due to the voluminous nature of this file, the Company is providing this  
Attachment on CD-ROM.

# Massachusetts Gas Implementation Guideline

For  
**Electronic Data Interchange**

TRANSACTION SET

# 248

## Write-off

Ver/Rel 004010

# 248 Account Assignment/Inquiry and Service/Status

Functional Group ID=**SU**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Account Assignment/Inquiry and Service/Status Transaction Set (248) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used for two-way, multi-transactional purposes of assigning accounts for collection, reporting status inquiries and inquiry responses and to update accounts between entities.

## 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	BHT	Beginning of Hierarchical Transaction	M	1		
LOOP ID - NM1							2
M	030	NM1	LDC	M	1		n1
LOOP ID - NM1							2
M	030	NM1	Supplier	M	1		n2

## 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 - HL							>1
M	010	HL	Hierarchical Level	M	1		n3
M	020	NM1	Customer Information	M	1		n4
M	060	REF	Supplier Account Number for Customer	M	>1		
M	060	REF	LDC Account Number for Customer	M	>1		
	060	REF	OLD LDC Account Number for Customer	O	>1		
M	110	BAL	Balance Detail	M	1		
LOOP ID - DTP							>1
	120	DTP	Write-off Date	O	1		
M	180	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

1. The NM1 loop will contain only information pertaining to the Credit Grantor and the Agency.
2. The NM1 loop will contain only information pertaining to the Credit Grantor and the Agency.
3. The HL loop will contain parent-child (subordinate) data relationships pertaining to the debtor and/or any association to the debtor.
4. The NM1 segment will contain only information pertaining to the debtor and/or any subordinate association to the debtor.

**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\*248\*000000001

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			248 Account Assignment/Inquiry and Service/Status	
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:** **BHT** **Beginning of Hierarchical Transaction**

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To define the business hierarchical structure of the transaction set and identify the business application purpose and reference data, i.e., number, date, and time

**Syntax Notes:**

- Semantic Notes:**
- 1 BHT03 is the number assigned by the originator to identify the transaction within the originator's business application system.
  - 2 BHT04 is the date the transaction was created within the business application system.
  - 3 BHT05 is the time the transaction was created within the business application system.

**Comments:**

**Notes:** One customer account per 248. This is a one to one relationship.  
BHT\*0057\*22\*1234567890\*19990226

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BHT01	1005	<b>Hierarchical Structure Code</b> Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set 0057 Supergroup, subgroup, member Debtor Customer	M ID 4/4
M	BHT02	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 22 Information Copy Used to notify the non-billing party that the billing party will no longer pursue collections for this customer.	M ID 2/2
M	BHT03	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Unique Number identifying this transaction assigned by the sender of the transaction. This number should be unique over all time.	M AN 1/30
M	BHT04	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the application system.	M DT 8/8

**Segment:** NM1 LDC  
**Position:** 030  
**Loop:** NM1 Mandatory  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To supply the full name of an individual or organizational entity  
**Syntax Notes:** 1 If either NM108 or NM109 is present, then the other is required.  
2 If NM111 is present, then NM110 is required.  
**Semantic Notes:** 1 NM102 qualifies NM103.  
**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.  
**Notes:** NM1\*8S\*3\*LDC COMPANY\*\*\*\*\*1\*007909411

#### Data Element Summary

	Ref.	Data		Attributes
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	NM101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			8S Consumer Service Provider (CSP)	
			LDC	
M	NM102	1065	Entity Type Qualifier	M ID 1/1
			Code qualifying the type of entity	
			3 Unknown	
M	NM103	1035	Name Last or Organization Name	M AN 1/35
			Individual last name or organizational name	
			LDC Company Name	
M	NM108	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	NM109	67	Identification Code	M AN 2/80
			Code identifying a party or other code	
			LDC D-U-N-S Number or D-U-N-S + 4 Number	

**Segment:** NM1 Supplier  
**Position:** 030  
**Loop:** NM1 Mandatory  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To supply the full name of an individual or organizational entity  
**Syntax Notes:** 1 If either NM108 or NM109 is present, then the other is required.  
2 If NM111 is present, then NM110 is required.  
**Semantic Notes:** 1 NM102 qualifies NM103.  
**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.  
**Notes:** NM1\*SJ\*3\*ESP COMPANY\*\*\*\*\*9\*007909422ESP1

#### Data Element Summary

	Ref.	Data		Attributes
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	NM101	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	NM102	1065	Entity Type Qualifier	M ID 1/1
			Code qualifying the type of entity	
			3 Unknown	
M	NM103	1035	Name Last or Organization Name	M AN 1/35
			Individual last name or organizational name	
			Supplier Company Name	
M	NM108	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	NM109	67	Identification Code	M AN 2/80
			Code identifying a party or other code	
			Supplier D-U-N-S Number or D-U-N-S + 4 Number	



**Segment:** **HL Hierarchical Level**  
**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**

**Semantic Notes:**

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.  
The HL segment defines a top-down/left-right ordered structure.
  - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
  - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
  - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** HL\*1\*\*24

**Data Element Summary**

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628 Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
		The Hierarchical Level identification should always be "1". This is a one to one transaction.	
M	HL03	735 Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		24	Supergroup
		Debtor Customer (this would include both a credit or debit write-off)	

**Segment:** **NM1 Customer Information**  
**Position:** 020  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To supply the full name of an individual or organizational entity  
**Syntax Notes:** 1 If either NM108 or NM109 is present, then the other is required.  
2 If NM111 is present, then NM110 is required.  
**Semantic Notes:** 1 NM102 qualifies NM103.  
**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.  
**Notes:** NM1\*D4\*3

#### Data Element Summary

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u> <u>Name</u></b>	<b><u>ID</u></b>
<b>M</b>	<b>NM101</b>	<b>98 Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual D4 Debtor This could be a credit or debit write-off situation.	<b>M ID 2/3</b>
<b>M</b>	<b>NM102</b>	<b>1065 Entity Type Qualifier</b> Code qualifying the type of entity 3 Unknown	<b>M ID 1/1</b>

**Segment:** **REF** **Supplier Account Number for Customer**  
**Position:** 060  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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\*11\*1394959

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Supplier assigned account number for end use [debtor] customer.	
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	
			Account Number	

**Segment:** **REF** LDC Account Number for Customer  
**Position:** 060  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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\*12\*1234567890

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 12 Billing Account LDC-assigned account number for end use [debtor] customer.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Account Number	M AN 1/30

<b>Segment:</b>	<b>REF</b>	<b>OLD LDC Account Number for Customer</b>
<b>Position:</b>	060	
<b>Loop:</b>	HL	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	>1	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	<b>1</b>	At least one of REF02 or REF03 is required.
	<b>2</b>	If either C04003 or C04004 is present, then the other is required.
	<b>3</b>	If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b>	REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>		
<b>Notes:</b>	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*1235367812	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45	Old Account Number
			Previous LDC-assigned account number for end use [debtor] customer.	
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 previous account number for the customer.	

**Segment:** **BAL** Balance Detail  
**Position:** 110  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify the specific monetary balances associated with a particular account  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:** BAL\*CD\*BD\*325.67  
If the amount is signed with a '-' it means it is a credit due to Customer.

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BAL01	951	Balance Type Code Code indicating the type of balance CD Cycle to Date	M ID 1/2
M	BAL02	522	Amount Qualifier Code Code to qualify amount BD Balance Due	M ID 1/3
M	BAL03	782	Monetary Amount Monetary amount This is the amount that the billing party will no longer pursue collections for.	M R 1/18

**Segment:** **DTP** **Write-off Date**  
**Position:** 120  
**Loop:** DTP Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify any or all of a date, a time, or a time period  
**Syntax Notes:**  
**Semantic Notes:** 1 DTP02 is the date or time or period format that will appear in DTP03.  
**Comments:**  
**Notes:** DTP\*630\*D8\*19990226

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTP01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			630 Account Closed	
			Date the account was written off.	
M	DTP02	1250	Date Time Period Format Qualifier	M ID 2/3
			Code indicating the date format, time format, or date and time format	
			D8 Date Expressed in Format CCYYMMDD	
M	DTP03	1251	Date Time Period	M AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times	

**Segment:** **SE** **Transaction Set Trailer**  
**Position:** 180  
**Loop:**  
**Level:** Detail  
**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\*28\*000000001

**Data Element Summary**

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



# **Massachusetts Gas Implementation Guideline**

**For**  
**Electronic Data Interchange**

**TRANSACTION SET**

# **810**

## **ESP 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		
Dep	050	REF	Meter Number	O	12		
LOOP ID - N1							200
M	070	N1	LDC	M	1		
LOOP ID - N1							200
M	070	N1	Supplier	M	1		

## 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
M	010	IT1	Invoice -- Account Level	M	1		
LOOP ID - SAC							25
M	180	SAC	Service, Promotion, Allowance, or Charge Information -- Account Level	M	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
M	080	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

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

**Segment:** **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>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</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

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Date</b>	
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.	
M	BIG07	640	Transaction Type Code	M ID 2/2
			Code specifying the type of transaction	
			ME Memorandum	
M	BIG08	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	

**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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			LDC assigned account number for end use customer	
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	
			Account Number	

**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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Supplier assigned account number for end use customer	
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	
			Account Number	

<b>Segment:</b>	<b>REF</b>	<b>Meter Number</b>
<b>Position:</b>	050	
<b>Loop:</b>		
<b>Level:</b>	Heading	
<b>Usage:</b>	Optional (Dependent)	
<b>Max Use:</b>	12	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	<b>1</b>	At least one of REF02 or REF03 is required.
	<b>2</b>	If either C04003 or C04004 is present, then the other is required.
	<b>3</b>	If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b>	REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>		
<b>Notes:</b>	At least one meter number must be provided for validation purposes for Bay State and Berkshire. REF*MG*1234567	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	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 Meter Number	M AN 1/30

**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\*\*40 (as Receiver)  
N1\*8S\*LDC COMPANY\*9\*0079094110001\*\*40 (as Receiver)

#### Data Element Summary

Ref.	Data			
Des.	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		
		8S Consumer Service Provider (CSP)		
		LDC		
M	N102	93 Name	M AN 1/60	
		Free-form name		
		This is the LDC'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:** **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\*\*41(as Sender)  
N1\*SJ\*ESP COMPANY\*1\*007909422\*\*41 (as Sender)

#### Data Element Summary

Ref.	Data			
Des.	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		
		41 Submitter		

# Segment: **IT1 Invoice -- Account Level**

**Position:** 010  
**Loop:** IT1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	IT101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set Sequential line item counter.	M AN 1/20
M	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	M ID 2/2
M	IT107	234	<b>Product/Service ID</b> Identifying number for a product or service GAS Gas Service	M AN 1/48
M	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	M ID 2/2
M	IT109	234	<b>Product/Service ID</b> Identifying number for a product or service ACCOUNT Indicates that charges pertain to the account level.	M AN 1/48

**Segment:** **SAC** **Service, Promotion, Allowance, or Charge Information Account Level**  
**Position:** 180  
**Loop:** SAC Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:** Only one SAC is allowed for adjustments

SAC\*C\*\*GU\*TPI002\*100.00

#### Data Element Summary

	Ref.	Data			
	Des.	Element	Name	Attributes	
M	SAC01	248	Allowance or Charge Indicator	M	ID 1/1
			Code which indicates an allowance or charge for the service specified		
			C Charge		
M	SAC03	559	Agency Qualifier Code	M	ID 2/2
			Code identifying the agency assigning the code values		
			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		
			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:** **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

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

<b>Segment:</b>	<b>CTT Transaction Totals</b>
<b>Position:</b>	070
<b>Loop:</b>	
<b>Level:</b>	Summary
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To transmit a hash total for a specific element in the transaction set
<b>Syntax Notes:</b>	<b>1</b> If either CTT03 or CTT04 is present, then the other is required. <b>2</b> If either CTT05 or CTT06 is present, then the other is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	<b>1</b> This segment is intended to provide hash totals to validate transaction completeness and correctness.
<b>Notes:</b>	CTT*5

Data Element Summary			
Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
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\*000000001

**Data Element Summary**

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

# Massachusetts Gas Implementation Guideline

For  
**Electronic Data Interchange**

TRANSACTION SET

# 810

## ESP 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		
Dep	050	REF	Meter Number	O	12		
LOOP ID - N1							200
M	070	N1	LDC	M	1		
LOOP ID - N1							200
M	070	N1	Supplier	M	1		

## 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
M	010	IT1	Invoice -- Account Level	M	1		
LOOP ID - SAC							25
M	180	SAC	Service, Promotion, Allowance, or Charge Information -- Account Level	M	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
M	080	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

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



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

#### Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
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**

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Date</b>	
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.	
M	BIG07	640	Transaction Type Code	M ID 2/2
			Code specifying the type of transaction	
			ME Memorandum	
M	BIG08	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	

**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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			LDC assigned account number for end use customer	
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	
			Account Number	

**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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Supplier assigned account number for end use customer	
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	
			Account Number	

<b>Segment:</b>	<b>REF</b>	<b>Meter Number</b>
<b>Position:</b>	050	
<b>Loop:</b>		
<b>Level:</b>	Heading	
<b>Usage:</b>	Optional (Dependent)	
<b>Max Use:</b>	12	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	<b>1</b>	At least one of REF02 or REF03 is required.
	<b>2</b>	If either C04003 or C04004 is present, then the other is required.
	<b>3</b>	If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b>	REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>		
<b>Notes:</b>	At least one meter number must be provided for validation purposes for Bay State and Berkshire. REF*MG*1234567	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	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 Meter Number	M AN 1/30

**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\*\*40 (as Receiver)  
N1\*8S\*LDC COMPANY\*9\*0079094110001\*\*40 (as Receiver)

#### Data Element Summary

Ref.	Data			
Des.	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		
		8S Consumer Service Provider (CSP)		
		LDC		
M	N102	93 Name	M AN 1/60	
		Free-form name		
		This is the LDC'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:** **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\*\*41(as Sender)  
N1\*SJ\*ESP COMPANY\*1\*007909422\*\*41 (as Sender)

#### Data Element Summary

Ref.	Data			
Des.	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		
		41 Submitter		

**Segment:** **IT1 Invoice -- Account Level**

**Position:** 010

**Loop:** IT1 Mandatory

**Level:** Detail

**Usage:** Mandatory

**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**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	IT101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set Sequential line item counter.	M AN 1/20
M	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	M ID 2/2
M	IT107	234	<b>Product/Service ID</b> Identifying number for a product or service GAS Gas Service	M AN 1/48
M	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	M ID 2/2
M	IT109	234	<b>Product/Service ID</b> Identifying number for a product or service ACCOUNT Indicates that charges pertain to the account level.	M AN 1/48



**Segment:** **SAC** **Service, Promotion, Allowance, or Charge Information Account Level**  
**Position:** 180  
**Loop:** SAC Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:**

Only one SAC is allowed for adjustments

SAC\*C\*\*GU\*TPI002\*10000

Note: 10000 represents \$100.00 - there is an implied decimal.

#### Data Element Summary

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

<b>Segment:</b>	<b>TDS</b>	<b>Total Monetary Value Summary</b>
<b>Position:</b>	010	
<b>Loop:</b>		
<b>Level:</b>	Summary	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify the total invoice discounts and amounts	
<b>Syntax Notes:</b>		
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).</li> <li>2 TDS02 indicates the amount upon which the terms discount amount is calculated.</li> <li>3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).</li> <li>4 TDS04 indicates the total amount of terms discount.</li> </ol>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.</li> </ol>	
<b>Notes:</b>	TDS*9875	

#### Data Element Summary

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

<b>Segment:</b>	<b>CTT Transaction Totals</b>
<b>Position:</b>	070
<b>Loop:</b>	
<b>Level:</b>	Summary
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To transmit a hash total for a specific element in the transaction set
<b>Syntax Notes:</b>	<b>1</b> If either CTT03 or CTT04 is present, then the other is required. <b>2</b> If either CTT05 or CTT06 is present, then the other is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	<b>1</b> This segment is intended to provide hash totals to validate transaction completeness and correctness.
<b>Notes:</b>	CTT*5

Data Element Summary			
Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
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\*000000001

**Data Element Summary**

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

# **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>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	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



# 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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			LDC assigned account number for end use customer	
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	
			Account Number	

**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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Supplier assigned account number for end use customer	
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	
			Account Number	

<b>Segment:</b>	<b>REF</b> Old LDC Account Number for Customer
<b>Position:</b>	050
<b>Loop:</b>	
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	12
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 REF04 contains data relating to the value cited in REF02.</li> </ol>
<b>Comments:</b>	
<b>Notes:</b>	<p>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.</p> <p>REF*45*1105687500</p>

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			LDC's previous account number for the customer.	
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 previous account number for the customer.	

<b>Segment:</b>	<b>REF</b>	<b>LDC Billing Cycle</b>
<b>Position:</b>	050	
<b>Loop:</b>		
<b>Level:</b>	Heading	
<b>Usage:</b>	Optional (Dependent)	
<b>Max Use:</b>	12	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	<b>1</b>	At least one of REF02 or REF03 is required.
	<b>2</b>	If either C04003 or C04004 is present, then the other is required.
	<b>3</b>	If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b>	REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>		
<b>Notes:</b>	Required unless showing an adjustment that does not relate to a billing cycle.	
	REF*BF*21	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>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			
Des.	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		
		8S Consumer Service Provider (CSP)		
		LDC		
M	N102	93 Name	M AN 1/60	
		Free-form name		
		This is the LDC'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		
		41 Submitter		

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



**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**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	IT101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set Sequential line item counter.	M AN 1/20
M	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	M ID 2/2
M	IT107	234	<b>Product/Service ID</b> Identifying number for a product or service GAS Gas Service	M AN 1/48
M	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	M ID 2/2
M	IT109	234	<b>Product/Service ID</b> Identifying number for a product or service ACCOUNT Indicates that charges pertain to the account level.	M AN 1/48

**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	<b>Tax Type Code</b> Code specifying the type of tax ST State Sales Tax	M ID 2/2
M	TXI02	782	<b>Monetary Amount</b> Monetary amount Calculated Tax Amount. This amount must be signed if negative.	M R 1/18
M	TXI07	662	<b>Relationship Code</b> 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	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
			151 Service Period End	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

**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.	Des.	Data Element	Name	Attributes
M	SAC01	248	Allowance or Charge Indicator	M ID 1/1
			Code which indicates an allowance or charge for the service specified	
			C Charge	
M	SAC03	559	Agency Qualifier Code	M ID 2/2
			Code identifying the agency assigning the code values	
			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	
			Used to report adjustments on Sales Tax	
			BUD001 Monthly budget bill amount due	
			Only valid for Bay State.	
			LPC001 Late Payment Charge	

			PRB0001	Past Due Balance - Supplier Arrears	
				Used for prior billed amount.	
			TPI002	Energy Services Supplier initiated line item	
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

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	IT101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set Sequential line item counter.	M AN 1/20
M	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	M ID 2/2
M	IT107	234	<b>Product/Service ID</b> Identifying number for a product or service GAS Gas Service	M AN 1/48
M	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	M ID 2/2
M	IT109	234	<b>Product/Service ID</b> Identifying number for a product or service RATE Indicates that charges are summarized at a rate level.	M AN 1/48

**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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			RB Rate code number	
			Supplier Rate Code for the customer	
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	
			Supplier Rate Code 1	



<b>Segment:</b>	<b>REF</b>	<b>Supplier Rate Code 2</b>
<b>Position:</b>	120	
<b>Loop:</b>	IT1	Optional
<b>Level:</b>	Detail	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	>1	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.	
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.	
<b>Comments:</b>		
<b>Notes:</b>	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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			PL	Price List Number
				Used to indicate a second price code for a Supplier account.
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	
			Supplier Rate Code 2	

<b>Segment:</b>	<b>REF</b>	<b>Supplier Rate Amount</b>
<b>Position:</b>	120	
<b>Loop:</b>	IT1	Optional
<b>Level:</b>	Detail	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	>1	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	<b>1</b>	At least one of REF02 or REF03 is required.
	<b>2</b>	If either C04003 or C04004 is present, then the other is required.
	<b>3</b>	If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b>	REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>		
<b>Notes:</b>	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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			PR Price Quote Number	
			Identifies a unit pricing category under a rate code	
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	
			Supplier Rate Amount	
			Example: .0350 for 3.5 cents	

# 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.	Des.	Data Element	Name	Attributes
M	SAC01	248	Allowance or Charge Indicator	M ID 1/1
			Code which indicates an allowance or charge for the service specified	
			C Charge	
M	SAC03	559	Agency Qualifier Code	M ID 2/2
			Code identifying the agency assigning the code values	
			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.

<b>Segment:</b>	<b>TDS</b>	<b>Total Monetary Value Summary</b>
<b>Position:</b>	010	
<b>Loop:</b>		
<b>Level:</b>	Summary	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify the total invoice discounts and amounts	
<b>Syntax Notes:</b>		
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).</li> <li>2 TDS02 indicates the amount upon which the terms discount amount is calculated.</li> <li>3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).</li> <li>4 TDS04 indicates the total amount of terms discount.</li> </ol>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.</li> </ol>	
<b>Notes:</b>	TDS*9875	

#### Data Element Summary

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

<b>Segment:</b>	<b>CTT Transaction Totals</b>
<b>Position:</b>	070
<b>Loop:</b>	
<b>Level:</b>	Summary
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To transmit a hash total for a specific element in the transaction set
<b>Syntax Notes:</b>	<b>1</b> If either CTT03 or CTT04 is present, then the other is required. <b>2</b> If either CTT05 or CTT06 is present, then the other is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	<b>1</b> This segment is intended to provide hash totals to validate transaction completeness and correctness.
<b>Notes:</b>	CTT*5

Data Element Summary			
Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
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\*000000001

**Data Element Summary**

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

# **Massachusetts Gas Implementation Guideline**

For

## **Electronic Data Interchange**

TRANSACTION SET

# **814**

## **Change**

## **Request and Response**

Ver/Rel 004010

# 814 General Request, Response or Confirmation

Functional Group ID=**GE**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the General Request, Response or Confirmation Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment. This standard can be used to request actions to be performed, to respond to a request for actions to be performed or to confirm information related to actions performed.

## 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	BGN	Beginning Segment	M	1		
LOOP ID - N1							1
M	040	N1	LDC	M	1		n1
LOOP ID - N1							1
M	040	N1	Supplier	M	1		n2

## 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 - LIN							>1
M	010	LIN	Item Identification	M	1		
M	020	ASI	Action or Status Indicator	M	1		
	030	REF	Reject Reasons	O	>1		
	030	REF	LDC Company - Reason for Change	O	>1		
	030	REF	Supplier - Reason for Change	O	>1		
M	030	REF	Supplier Account Number for Customer	M	1		
M	030	REF	LDC Account Number for Customer	M	1		
	030	REF	Old LDC Account Number for Customer	O	1		
	030	REF	LDC Billing Cycle	O	1		
	030	REF	Billing Option	O	1		
LOOP ID - NM1							>1
M	080	NM1	Meter/Unmetered Information	M	1		n3
	130	REF	Old Meter Number	O	1		
	130	REF	LDC Rate Code	O	1		
	130	REF	Supplier Rate Code 1	O	1		
	130	REF	Supplier Rate Code 2	O	1		
Dep	130	REF	Supplier Rate Amount	O	1		
	130	REF	Designated Receipt Point	O	1		
	130	REF	Service Indicator	O	1		
	130	REF	Sales Tax Indicator	O	1		
	130	REF	Total Capacity Quantity (in therms)	O	1		
	140	DTM	Meter Status Date	O	>1		
M	150	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

MA814C (004010GAS)



1. The N1 loop is used to identify the transaction sender and receiver.
2. The N1 loop is used to identify the transaction sender and receiver.
3. The NM1 loop is used to identify the parties associated with the individual line item (LIN), such as an individual consumer in a consolidated third party Consumer Service Provider transaction.

<b>Segment:</b>	<b>ST</b>	<b>Transaction Set Header</b>
<b>Position:</b>	010	
<b>Loop:</b>		
<b>Level:</b>	Heading	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To indicate the start of a transaction set and to assign a control number	
<b>Syntax Notes:</b>		
<b>Semantic Notes:</b>	<b>1</b> 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).	
<b>Comments:</b>		
<b>Notes:</b>	Request: Required Response: Required ST*814*000000001	

#### Data Element Summary

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
M	ST01	143	<b>Transaction Set Identifier Code</b>	M ID 3/3
			Code uniquely identifying a Transaction Set	
			814 General Request, Response or Confirmation	
M	ST02	329	<b>Transaction Set Control Number</b>	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:** **BGN Beginning Segment**  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a transaction set  
**Syntax Notes:** 1 If BGN05 is present, then BGN04 is required.  
**Semantic Notes:** 1 BGN02 is the transaction set reference number.  
2 BGN03 is the transaction set date.  
3 BGN04 is the transaction set time.  
4 BGN05 is the transaction set time qualifier.  
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

**Comments:**

**Notes:**

Request: Required  
Response: Required  
For BGN 01 use the following:  
  
814E - 814CS - 814CL - 814DC - 814DS - 814H use 13 request  
  
814SE - 814ER - 814CC - 814DR use 11 response  
BGN\*13\*199904011956531\*19990401  
BGN\*11\*199904011956531\*19990402

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
M	BGN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 11 Response Signifies that the requested service will be addressed as described in this transaction. 13 Request	M ID 2/2
M	BGN02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier On the request, this is a unique transaction identification number assigned by the originator of this transaction. On the response, the tracking number from the request is echoed back in this BGN02.	M AN 1/30
M	BGN03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M DT 8/8

**Segment:** **N1** LDC  
**Position:** 040  
**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:**  
Request: Required  
Response: Required  
N1\*8S\*LDC COMPANY\*1\*007909411\*\*40 (as Receiver)  
N1\*8S\*LDC COMPANY\*9\*0079094110001\*\*40 (as Receiver)  
N1\*8S\*LDC COMPANY\*1\*007909411\*\*41 (as Sender)  
N1\*8S\*LDC COMPANY\*9\*0079094110001\*\*41 (as Sender)

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
		8S	Consumer Service Provider (CSP)	
			LDC	
M	N102	93	Name	M AN 1/60
			Free-form name	
			LDC Company 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 9/13
			Code identifying a party or other code	
			This is the LDC's 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	
		41	Submitter	

**Segment:** **N1 Supplier**  
**Position:** 040  
**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:**  
Request: Required  
Response: Required  
N1\*SJ\*ESP COMPANY\*9\*0079094220001\*\*41 (as Sender)  
N1\*SJ\*ESP COMPANY\*1\*007909422\*\*41 (as Sender)  
N1\*SJ\*ESP COMPANY\*9\*0079094220001\*\*40 (as Receiver)  
N1\*SJ\*ESP COMPANY\*1\*007909422\*\*40 (as Receiver)

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
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 9/13
			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	
		41	Submitter	

<b>Segment:</b>	<b>LIN</b>	<b>Item Identification</b>
<b>Position:</b>	010	
<b>Loop:</b>	LIN	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify basic item identification data	
<b>Syntax Notes:</b>	1	If either LIN04 or LIN05 is present, then the other is required.
	2	If either LIN06 or LIN07 is present, then the other is required.
	3	If either LIN08 or LIN09 is present, then the other is required.
	4	If either LIN10 or LIN11 is present, then the other is required.
	5	If either LIN12 or LIN13 is present, then the other is required.
	6	If either LIN14 or LIN15 is present, then the other is required.
	7	If either LIN16 or LIN17 is present, then the other is required.
	8	If either LIN18 or LIN19 is present, then the other is required.
	9	If either LIN20 or LIN21 is present, then the other is required.
	10	If either LIN22 or LIN23 is present, then the other is required.
	11	If either LIN24 or LIN25 is present, then the other is required.
	12	If either LIN26 or LIN27 is present, then the other is required.
	13	If either LIN28 or LIN29 is present, then the other is required.
	14	If either LIN30 or LIN31 is present, then the other is required.
<b>Semantic Notes:</b>	1	LIN01 is the line item identification
<b>Comments:</b>	1	See the Data Dictionary for a complete list of IDs.
	2	LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
<b>Notes:</b>	Request: Required	
	Response: Required	
	LIN*CE199912310800000001*SH*GAS*SH*CE (Supplier Services)	

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LIN01	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set On the request, this is a unique tracking number. Only one LIN loop per transaction.	M AN 1/20
M	LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
M	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service GAS Gas Service Indicates a customer request to obtain gas service.	M AN 1/48
M	LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
M	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service CE Supplier Services Indicates a customer request to enroll in the service defined in LIN03 (Gas Delivery)	M AN 2/2

**Segment:** **ASI** **Action or Status Indicator**  
**Position:** 020  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the action to be taken with the information provided or the status of the entity described

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

Request: Required  
Response: Required  
ASI\*WQ\*001 - (814CC - Successful)  
ASI\*U\*001 - (814ER - Reject)  
ASI\*7\*001 - (814CS & 814CL)

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ASI01	306	Action Code	M ID 1/2
			Code indicating type of action	
			7 Request	
			U Reject	
			WQ Accept	
M	ASI02	875	Maintenance Type Code	M ID 3/3
			Code identifying the specific type of item maintenance	
			001 Change	

<b>Segment:</b>	<b>REF</b>	<b>Reject Reasons</b>
<b>Position:</b>	030	
<b>Loop:</b>	LIN	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	>1	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	<b>1</b>	At least one of REF02 or REF03 is required.
	<b>2</b>	If either C04003 or C04004 is present, then the other is required.
	<b>3</b>	If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b>	REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>		
<b>Notes:</b>	Request: Not Used Response: Required for Error Response REF*7G*DIV (example only)	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			7G Data Quality Reject Reason	
M	REF02	127	Reference Identification	M AN 3/3
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			008 Account exists but is not active	
			A13 Other - see REF03	
			A76 Account not found	
			ABN Duplicate request received	
			ACI Action Code (ASI01) Invalid	
			ANL Service provider not licensed to provide requested service	
			C11 Change Reason (REF*TD) Missing or Invalid	
			FRB Incorrect Billing Option (REF*BLT) Requested	
			MNM The meter number does not match any meter associated with the account	
			UND Cannot identify ESP	
			UNE Cannot identify LDC	
			W05 Requested Rate not found (Complete Billing)	
	REF03	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	
			Used to further describe the status reason code sent in REF02.	
			DRP Invalid Designated Receipt Point	



**Segment:** **REF** LDC Company - Reason for Change  
**Position:** 030  
**Loop:** LIN Mandatory  
**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:** Request: Required on Request from LDC if Change is at an Account Level  
Response: Not Used  
REF\*TD\*REF12

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			TD Reason for Change	
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	
			NM1MA Meter Addition	
			NM1MR Meter Removal	
			NM1MX Meter Exchange	
			REF12 Change LDC Account Number for Customer	
			REFBF Change LDC Billing Cycle	
			REFMT Change Total Capacity Quantity	
			REFNH Change Utility Rate Class or Tariff	
			REFSPL Change Designated Receipt Point	

**Segment:** **REF** **Supplier - Reason for Change**  
**Position:** 030  
**Loop:** LIN Mandatory  
**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:** Request: Required on Request from Supplier if Change is at an Account Level  
Response: Not Used  
REF\*TD\*REFBLT

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification TD Reason for Change	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier AMTTA Change Sales Tax Indicator REF11 Change Supplier Account Number REF17 Change Service Indicator REFBLT Change Billing Type (Billing Option) REFPG Change Public Aggregator REFPL Change Supplier Rate Code 2 REFPR Change Supplier Rate Amount REFRB Change Supplier Rate Code 1	M AN 1/30

**Segment:** **REF** **Supplier Account Number for Customer**  
**Position:** 030  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:** Request: Required if previously sent by supplier  
Response: Required if previously sent by supplier  
REF\*11\*2348400586

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 11 Account Number Supplier assigned account number for end use customer	M ID 2/3
M	REF02	127	<b>Reference Identification</b> 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** LDC Account Number for Customer  
**Position:** 030  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:** Request: Required  
Response: Required  
REF\*12\*2931839200

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			LDC Company assigned account number for end use customer	
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	
			Account Number	

<b>Segment:</b>	<b>REF</b> Old LDC Account Number for Customer
<b>Position:</b>	030
<b>Loop:</b>	LIN Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	
<b>Notes:</b>	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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45	Old Account Number
			LDC Company previous account number for the end use customer.	
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 previous account number for the customer.	

**Segment:** **REF** LDC Billing Cycle  
**Position:** 030  
**Loop:** LIN Mandatory  
**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:**  
Request: Optional  
Response: Not Used  
REF\*BF\*15

#### Data Element Summary

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

**Segment:** **REF** **Billing Option**  
**Position:** 030  
**Loop:** LIN Mandatory  
**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:**  
Request: Optional  
Response: Not Used  
REF\*BLT\*LDC

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification BLT Billing Type Identifies whether the bill is consolidated by the Distribution Company or whether each party will render their own bill. See REF02 for valid values.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier DUAL Each party bills the customer for its portion - also known as Passthrough LDC The Distribution Company bills the customer for both Distribution and Supplier Service Charges - also known as Complete Billing.	M AN 3/4

**Segment:** **NM1 Meter/Unmetered Information**  
**Position:** 080  
**Loop:** NM1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To supply the full name of an individual or organizational entity  
**Syntax Notes:** 1 If either NM108 or NM109 is present, then the other is required.  
2 If NM111 is present, then NM110 is required.  
**Semantic Notes:** 1 NM102 qualifies NM103.  
**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.  
**Notes:**

Request: Required  
Response: Required  
NM1\*MR\*3\*\*\*\*\*32\*1234568  
NM1\*MA\*3\*\*\*\*\*93\*UNMETERED  
NM1\*MX\*3\*\*\*\*\*32\*334545

#### Data Element Summary

M	Ref. Des. NM101	Data Element 98	Name Entity Identifier Code	Attributes
				M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			MA	Party for whom Item is Ultimately Intended Meter Addition - use when adding a meter to an existing account
			MQ	Metering Location Meter Level Information Change - use when changing existing Meter level Information or Attribute(s) for an existing Meter. Also used when enrolling a customer for the first time.
			MR	Medical Insurance Carrier Meter Removal - use when removing a meter from an existing account
			MX	Juvenile Witness Meter Exchange - use when exchanging a meter
M	NM102	1065	Entity Type Qualifier	M ID 1/1
			Code qualifying the type of entity	
			3	Unknown
M	NM108	66	Identification Code Qualifier	M ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			32	Assigned by Property Operator Meter Number
			93	Code assigned by the organization originating the transaction set This code used when a Meter Number is NOT provided in NM109 (i.e., when NM109 contains "UNMETERED").
M	NM109	67	Identification Code	M AN 2/80
			Code identifying a party or other code	
			Meter Number or UNMETERED - for Unmetered Services	
			On an exchange, this is the new meter number. This is the meter number that will be used for validation for Bay State and Berkshire.	



On a meter removal, the meter number for the meter being removed will be provided in this NM109.

<b>Segment:</b>	<b>REF</b> Old Meter Number
<b>Position:</b>	130
<b>Loop:</b>	NM1 Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	
<b>Notes:</b>	Only used when NM1*MX is used exchanging a meter. This would present the "old meter" being replaced. REF*46*9938526S

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			46 Old Meter Number	
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	
			Old Meter Number	

**Segment:** **REF** LDC Rate Code  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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:**  
Request: Optional  
Response: Not Used  
REF\*NH\*RS1

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification NH Rate Card Number Identifies a Distribution rate class or tariff	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 Rate Code	M AN 1/30

**Segment:** **REF** **Supplier Rate Code 1**  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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 is only used when complete billing is chosen.  
REF\*RB\*A29

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			RB	Rate code number
			Supplier Rate Code for the customer	
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	
			Supplier Rate Code	

**Segment:** **REF** **Supplier Rate Code 2**  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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 is only used when complete billing is chosen.  
REF\*PL\*A20

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			PL Price List Number	
			Used to indicate a second price code for a Supplier account.	
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	
			Secondary Rate Code for Supplier	

<b>Segment:</b>	<b>REF</b>	<b>Supplier Rate Amount</b>
<b>Position:</b>	130	
<b>Loop:</b>	NM1	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Optional (Dependent)	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.	
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.	
<b>Comments:</b>		
<b>Notes:</b>	This is only used when complete billing is chosen. 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. This segment is only used when Supplier Rate Code 1 is used. REF*PR*.0350	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			PR	Price Quote Number
			Identifies a unit pricing category under a rate code	
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	
			Supplier Rate Amount	
			Example: .0350 for 3.5 cents	

**Segment:** **REF** **Designated Receipt Point**  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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:**  
Request: Optional  
Response: Not Used  
REF\*SPL\*1234567

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			SPL	Standard Point Location Code (SPLC)
			City gate number	
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	
			City gate number	

**Segment:** **REF** **Service Indicator**  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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:**  
Request: Optional  
Response: Not Used  
REF\*17\*D  
REF\*17\*N

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			17 Client Reporting Category	
			Used as an identifier for the type of Distribution Service to be provided to the Customer in conjunction with Supplier Services.	
M	REF02	127	Reference Identification	M AN 1/5
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			D Daily Metered Distribution Service	
			N Non Daily Metered Distribution Service	



**Segment:** **REF** Sales Tax Indicator  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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 is only used on complete billing for sales tax on the supplier side.  
REF\*TX\*1

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			TX Tax Exempt Number	
			Indicates if the service is taxable or exempt.	
M	REF02	127	Reference Identification	M AN 1/5
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			0 Tax exempt	
			1 100% taxable	

**Segment:** **REF** **Total Capacity Quantity (in therms)**  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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:**  
Request: Optional  
Response: Not Used  
REF\*MT\*T\*14

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			MT	Meter Ticket Number
				Meter type. Used to identify the type of consumption measured by this meter and the interval between measurements.
M	REF02	127	Reference Identification	M AN 1/5
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			T	Indicates the measurement is in therms
M	REF03	352	Description	M AN 1/80
			A free-form description to clarify the related data elements and their content	
			Total therms (Gas)	

**Segment:** **DTM Meter Status Date**  
**Position:** 140  
**Loop:** NM1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**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 is used to indicate a meter change date.  
DTM\*MRR\*19990101

Data Element Summary				
	Ref.	Data	Name	Attributes
	Des.	Element		
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			MRR Meter Reading	
			Used to indicate the date of a meter change, addition, etc.	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

**Segment:** **SE** **Transaction Set Trailer**  
**Position:** 150  
**Loop:**  
**Level:** Detail  
**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:**  
Request: Required  
Response: Required  
SE\*28\*000000001

**Data Element Summary**

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

# **Massachusetts Gas Implementation Guideline**

For

## **Electronic Data Interchange**

TRANSACTION SET

# **814**

## **Drop**

## **Request and Response**

Ver/Rel 004010

# 814 General Request, Response or Confirmation

Functional Group ID=**GE**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the General Request, Response or Confirmation Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment. This standard can be used to request actions to be performed, to respond to a request for actions to be performed or to confirm information related to actions performed.

## 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	BGN	Beginning Segment	M	1		
LOOP ID - N1						1	
M	040	N1	LDC	M	1		n1
LOOP ID - N1						1	
M	040	N1	Supplier	M	1		n2

## 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 - LIN						>1	
M	010	LIN	Item Identification	M	1		
M	020	ASI	Action or Status Indicator	M	1		
	030	REF	Reject Reasons	O	>1		
M	030	REF	Supplier Account Number for Customer	M	1		
M	030	REF	LDC Account Number for Customer	M	1		
	030	REF	Old LDC Account Number for Customer	O	1		
	030	REF	REF ID (Meter Number)	O	1		
LOOP ID - NM1						>1	
M	080	NM1	Meter/Unmetered Information	M	1		n3
	140	DTM	Effective Date of Service	O	>1		
M	150	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

1. The N1 loop is used to identify the transaction sender and receiver.
2. The N1 loop is used to identify the transaction sender and receiver.
3. The NM1 loop is used to identify the parties associated with the individual line item (LIN), such as an individual consumer in a consolidated third party Consumer Service Provider transaction.

<b>Segment:</b>	<b>ST</b>	<b>Transaction Set Header</b>
<b>Position:</b>	010	
<b>Loop:</b>		
<b>Level:</b>	Heading	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To indicate the start of a transaction set and to assign a control number	
<b>Syntax Notes:</b>		
<b>Semantic Notes:</b>	<b>1</b> 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).	
<b>Comments:</b>		
<b>Notes:</b>	Request: Required Response: Required ST*814*000000001	

#### Data Element Summary

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u></b>		
M	ST01	143	<b>Transaction Set Identifier Code</b>	M ID 3/3
			Code uniquely identifying a Transaction Set	
			814 General Request, Response or Confirmation	
M	ST02	329	<b>Transaction Set Control Number</b>	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:** **BGN** Beginning Segment  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a transaction set  
**Syntax Notes:** 1 If BGN05 is present, then BGN04 is required.  
**Semantic Notes:** 1 BGN02 is the transaction set reference number.  
2 BGN03 is the transaction set date.  
3 BGN04 is the transaction set time.  
4 BGN05 is the transaction set time qualifier.  
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

**Comments:**

**Notes:**

Request: Required  
Response: Required  
For BGN 01 use the following:

814E - 814CS - 814CL - 814DC - 814DS - 814H use 13 request

814SE - 814ER - 814CC - 814DR use 11 response

BGN\*13\*199904011956531\*19990401

BGN\*11\*199904011956531\*19990402

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
M	BGN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 11 Response Signifies that the requested service will be addressed as described in this transaction. 13 Request	M ID 2/2
M	BGN02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier On the request, this is a unique transaction identification number assigned by the originator of this transaction. On the response, the tracking number from the request is echoed back in this BGN02.	M AN 1/30
M	BGN03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M DT 8/8



**Segment:** **N1** LDC  
**Position:** 040  
**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:**  
Request: Required  
Response: Required  
N1\*8S\*LDC COMPANY\*1\*007909411\*\*40 (as Receiver)  
N1\*8S\*LDC COMPANY\*9\*0079094110001\*\*40 (as Receiver)  
N1\*8S\*LDC COMPANY\*1\*007909411\*\*41 (as Sender)  
N1\*8S\*LDC COMPANY\*9\*0079094110001\*\*41 (as Sender)

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
		8S	Consumer Service Provider (CSP)	
			LDC	
M	N102	93	Name	M AN 1/60
			Free-form name	
			LDC Company 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 9/13
			Code identifying a party or other code	
			This is the LDC's 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	
		41	Submitter	

**Segment:** **N1 Supplier**  
**Position:** 040  
**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:**  
Request: Required  
Response: Required  
N1\*SJ\*ESP COMPANY\*9\*0079094220001\*\*41 (as Sender)  
N1\*SJ\*ESP COMPANY\*1\*007909422\*\*41 (as Sender)  
N1\*SJ\*ESP COMPANY\*9\*0079094220001\*\*40 (as Receiver)  
N1\*SJ\*ESP COMPANY\*1\*007909422\*\*40 (as Receiver)

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
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 9/13
			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	
		41	Submitter	

<b>Segment:</b>	<b>LIN</b>	<b>Item Identification</b>
<b>Position:</b>	010	
<b>Loop:</b>	LIN	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify basic item identification data	
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either LIN04 or LIN05 is present, then the other is required.</li> <li>2 If either LIN06 or LIN07 is present, then the other is required.</li> <li>3 If either LIN08 or LIN09 is present, then the other is required.</li> <li>4 If either LIN10 or LIN11 is present, then the other is required.</li> <li>5 If either LIN12 or LIN13 is present, then the other is required.</li> <li>6 If either LIN14 or LIN15 is present, then the other is required.</li> <li>7 If either LIN16 or LIN17 is present, then the other is required.</li> <li>8 If either LIN18 or LIN19 is present, then the other is required.</li> <li>9 If either LIN20 or LIN21 is present, then the other is required.</li> <li>10 If either LIN22 or LIN23 is present, then the other is required.</li> <li>11 If either LIN24 or LIN25 is present, then the other is required.</li> <li>12 If either LIN26 or LIN27 is present, then the other is required.</li> <li>13 If either LIN28 or LIN29 is present, then the other is required.</li> <li>14 If either LIN30 or LIN31 is present, then the other is required.</li> </ol>	
<b>Semantic Notes:</b>	1 LIN01 is the line item identification	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 See the Data Dictionary for a complete list of IDs.</li> <li>2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>	
<b>Notes:</b>	Request: Required Response: Required LIN*CE199912310800000001*SH*GAS*SH*CE (Supplier Services)	

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LIN01	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set On the request, this is a unique tracking number. Only one LIN loop per transaction.	M AN 1/20
M	LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
M	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service GAS Gas Service Indicates a customer request to obtain gas service.	M AN 1/48
M	LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
M	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service CE Supplier Services Indicates a customer request to enroll in the service defined in LIN03 (Gas Delivery)	M AN 2/2

**Segment:** **ASI** **Action or Status Indicator**  
**Position:** 020  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the action to be taken with the information provided or the status of the entity described

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

Request: Required  
Response: Required  
ASI\*7\*024 - (814DS & 814DC- Request)  
ASI\*U\*024 - (814DR - Reject)  
ASI\*WQ\*024 - (814DR - confirmation of drop)

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ASI01	306	<b>Action Code</b> Code indicating type of action 7 Request U Reject WQ Accept	M ID 1/2
M	ASI02	875	<b>Maintenance Type Code</b> Code identifying the specific type of item maintenance 024 Cancellation or Termination	M ID 3/3

**Segment:** **REF** **Reject Reasons**  
**Position:** 030  
**Loop:** LIN Mandatory  
**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:**

Request: Not Used  
Response: Required for Error Response  
REF\*7G\*DIV (example only)

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 7G Data Quality Reject Reason	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier 008 Account exists but is not active A13 Other - see REF03 A76 Account not found ABN Duplicate request received ACI Action Code (ASI01) Invalid DIV Date Invalid MNM The meter number does not match any meter associated with the account UND Cannot identify ESP UNE Cannot identify LDC	M AN 3/3

**Segment:** **REF** **Supplier Account Number for Customer**  
**Position:** 030  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:** Request: Required if previously sent by supplier  
Response: Required if previously sent by supplier  
REF\*11\*2348400586

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 11 Account Number Supplier assigned account number for end use customer	M ID 2/3
M	REF02	127	<b>Reference Identification</b> 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** LDC Account Number for Customer  
**Position:** 030  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:** Request: Required  
Response: Required  
REF\*12\*2931839200

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			LDC Company assigned account number for end use customer	
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	
			Account Number	

<b>Segment:</b>	<b>REF</b> Old LDC Account Number for Customer
<b>Position:</b>	030
<b>Loop:</b>	LIN Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	
<b>Notes:</b>	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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			LDC Company previous account number for the end use customer.	
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 previous account number for the customer.	



**Segment:** **REF** REF ID (Meter Number)  
**Position:** 030  
**Loop:** LIN Mandatory  
**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:**  
Required when supplier drops customer.  
Optional where customer drops supplier.  
REF\*MG\*1234567

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			MG Meter Number	
M	REF02	127	Reference Identification	M AN 3/4
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Meter Number	

**Segment:** **NM1 Meter/Unmetered Information**  
**Position:** 080  
**Loop:** NM1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To supply the full name of an individual or organizational entity  
**Syntax Notes:** 1 If either NM108 or NM109 is present, then the other is required.  
2 If NM111 is present, then NM110 is required.  
**Semantic Notes:** 1 NM102 qualifies NM103.  
**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.  
**Notes:** Request: Required  
Response: Required  
NM1\*MQ\*3\*\*\*\*\*93\*1234567

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	NM101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location Meter Level Information Change - use when changing existing Meter level Information or Attribute(s) for an existing Meter. Also used when enrolling a customer for the first time.	M ID 2/3
M	NM102	1065	<b>Entity Type Qualifier</b> Code qualifying the type of entity 3 Unknown	M ID 1/1
M	NM108	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 32 Assigned by Property Operator Meter Number 93 Code assigned by the organization originating the transaction set This code used when a Meter Number is NOT provided in NM109 (i.e., when NM109 contains "UNMETERED").	M ID 1/2
M	NM109	67	<b>Identification Code</b> Code identifying a party or other code Meter Number UNMETERED - for Unmetered Services	M AN 2/80

**Segment:** **DTM** **Effective Date of Service**  
**Position:** 140  
**Loop:** NM1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**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:**

Request: Required  
Response: Required  
DTM\*150\*19990101

#### 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	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
			Date that the service with the Supplier will start.	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

**Segment:** **SE Transaction Set Trailer**  
**Position:** 150  
**Loop:**  
**Level:** Detail  
**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:**  
Request: Required  
Response: Required  
SE\*28\*000000001

**Data Element Summary**

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

# **Massachusetts Gas Implementation Guideline**

For

## **Electronic Data Interchange**

TRANSACTION SET

# **814**

**Enrollment  
Request and Response**  
Ver/Rel 004010

# 814 General Request, Response or Confirmation

Functional Group ID=**GE**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the General Request, Response or Confirmation Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment. This standard can be used to request actions to be performed, to respond to a request for actions to be performed or to confirm information related to actions performed.

## 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	BGN	Beginning Segment	M	1		
LOOP ID - N1							1
M	040	N1	LDC	M	1		n1
LOOP ID - N1							1
M	040	N1	Supplier	M	1		n2
LOOP ID - N1							1
	040	N1	Bill to Identifier	O	1		n3
	060	N3	Address Information	O	1		
	070	N4	Geographic Location	O	1		

## 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 - LIN							>1
M	010	LIN	Item Identification	M	1		
M	020	ASI	Action or Status Indicator	M	1		
	030	REF	Reject Reasons	O	>1		
M	030	REF	Supplier Account Number for Customer	M	1		
M	030	REF	LDC Account Number for Customer	M	1		
	030	REF	Old LDC Account Number for Customer	O	1		
	030	REF	Public Aggregator	O	1		
	030	REF	LDC Billing Cycle	O	1		
	030	REF	Billing Option	O	1		
LOOP ID - NM1							>1
M	080	NM1	Meter/Unmetered Information	M	1		n4
	130	REF	LDC Rate Code	O	1		
	130	REF	Supplier Rate Code 1	O	1		
	130	REF	Supplier Rate Code 2	O	1		
Dep	130	REF	Supplier Rate Amount	O	1		
	130	REF	Designated Receipt Point	O	1		
	130	REF	Service Indicator	O	1		
	130	REF	Sales Tax Indicator	O	1		
	130	REF	Total Capacity Quantity (in therms)	O	1		
	140	DTM	Effective Date of Service	O	>1		

## Transaction Set Notes

1. The N1 loop is used to identify the transaction sender and receiver.
2. The N1 loop is used to identify the transaction sender and receiver.
3. The N1 loop is used to identify the transaction sender and receiver.
4. The NM1 loop is used to identify the parties associated with the individual line item (LIN), such as an individual consumer in a consolidated third party Consumer Service Provider transaction.

<b>Segment:</b>	<b>ST</b>	<b>Transaction Set Header</b>
<b>Position:</b>	010	
<b>Loop:</b>		
<b>Level:</b>	Heading	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To indicate the start of a transaction set and to assign a control number	
<b>Syntax Notes:</b>		
<b>Semantic Notes:</b>	<b>1</b> 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).	
<b>Comments:</b>		
<b>Notes:</b>	Request: Required Response: Required ST*814*000000001	

#### Data Element Summary

<b>Ref.</b>	<b>Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
M	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			814 General Request, Response or Confirmation	
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:** **BGN Beginning Segment**  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a transaction set  
**Syntax Notes:** 1 If BGN05 is present, then BGN04 is required.  
**Semantic Notes:** 1 BGN02 is the transaction set reference number.  
2 BGN03 is the transaction set date.  
3 BGN04 is the transaction set time.  
4 BGN05 is the transaction set time qualifier.  
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

**Comments:**

**Notes:**

Request: Required  
Response: Required  
For BGN 01 use the following:

814E - 814CS - 814CL - 814DC - 814DS - 814H use 13 request

814SE - 814ER - 814CC - 814DR use 11 response

BGN\*13\*199904011956531\*19990401  
BGN\*11\*199904011956531\*19990402

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BGN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 11 Response Signifies that the requested service will be addressed as described in this transaction.	M ID 2/2
M	BGN02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier On the request, this is a unique transaction identification number assigned by the originator of this transaction. On the response, the tracking number from the request is echoed back in this BGN02.	M AN 1/30
M	BGN03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M DT 8/8

**Segment:** **N1** LDC  
**Position:** 040  
**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:**  
Request: Required  
Response: Required  
N1\*8S\*LDC COMPANY\*1\*007909411\*\*40 (as Receiver)  
N1\*8S\*LDC COMPANY\*9\*0079094110001\*\*40 (as Receiver)  
N1\*8S\*LDC COMPANY\*1\*007909411\*\*41 (as Sender)  
N1\*8S\*LDC COMPANY\*9\*0079094110001\*\*41 (as Sender)

#### Data Element Summary

Ref.	Data			
Des.	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		
		8S Consumer Service Provider (CSP)		
		LDC		
M	N102	93 Name	M AN 1/60	
		Free-form name		
		LDC Company 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 9/13	
		Code identifying a party or other code		
		This is the LDC's 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		
		41 Submitter		

**Segment:** **N1 Supplier**  
**Position:** 040  
**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:**  
Request: Required  
Response: Required  
N1\*SJ\*ESP COMPANY\*9\*0079094220001\*\*41 (as Sender)  
N1\*SJ\*ESP COMPANY\*1\*007909422\*\*41 (as Sender)  
N1\*SJ\*ESP COMPANY\*9\*0079094220001\*\*40 (as Receiver)  
N1\*SJ\*ESP COMPANY\*1\*007909422\*\*40 (as Receiver)

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
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 9/13
			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	
		41	Submitter	

**Segment:** **N1 Bill to Identifier**  
**Position:** 040  
**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.  
**Notes:** Request: Optional  
Response: Optional  
N1\*BT

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			BT Bill-to-Party	
			Used to identify a billing address for the customer associated with the service account.	
M	N102	93	Name	M AN 1/60
			Free-form name	
			This segment is required for X12 compliance. It will be populated with "NV".	

**Segment:** **N3** **Address Information**  
**Position:** 060  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:**

Request: Optional  
Response: Optional  
N3\*123 N MAIN ST\*MS FLR13

#### Data Element Summary

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

<b>Segment:</b>	<b>N4 Geographic Location</b>
<b>Position:</b>	070
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the geographic place of the named party
<b>Syntax Notes:</b>	1 If N406 is present, then N405 is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	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.
<b>Notes:</b>	Request: Optional Response: Optional N4*ANYTOWN*PA*18111 N4*ANYTOWN*PA*181110001

#### Data Element Summary

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
M	N401	19	City Name Free-form text for city name	M AN 2/30
M	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	M ID 2/2
M	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	M ID 5/9
	N404	26	Country Code Code identifying the country Only used if outside of the US.	O ID 2/3

<b>Segment:</b>	<b>LIN</b>	<b>Item Identification</b>
<b>Position:</b>	010	
<b>Loop:</b>	LIN	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify basic item identification data	
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either LIN04 or LIN05 is present, then the other is required.</li> <li>2 If either LIN06 or LIN07 is present, then the other is required.</li> <li>3 If either LIN08 or LIN09 is present, then the other is required.</li> <li>4 If either LIN10 or LIN11 is present, then the other is required.</li> <li>5 If either LIN12 or LIN13 is present, then the other is required.</li> <li>6 If either LIN14 or LIN15 is present, then the other is required.</li> <li>7 If either LIN16 or LIN17 is present, then the other is required.</li> <li>8 If either LIN18 or LIN19 is present, then the other is required.</li> <li>9 If either LIN20 or LIN21 is present, then the other is required.</li> <li>10 If either LIN22 or LIN23 is present, then the other is required.</li> <li>11 If either LIN24 or LIN25 is present, then the other is required.</li> <li>12 If either LIN26 or LIN27 is present, then the other is required.</li> <li>13 If either LIN28 or LIN29 is present, then the other is required.</li> <li>14 If either LIN30 or LIN31 is present, then the other is required.</li> </ol>	
<b>Semantic Notes:</b>	1 LIN01 is the line item identification	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 See the Data Dictionary for a complete list of IDs.</li> <li>2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>	
<b>Notes:</b>	Request: Required Response: Required LIN*CE199912310800000001*SH*GAS*SH*CE (Supplier Services)	

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LIN01	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set On the request, this is a unique tracking number. Only one LIN loop per transaction.	M AN 1/20
M	LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
M	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service GAS Gas Service Indicates a customer request to obtain gas service.	M AN 1/48
M	LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
M	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service CE Supplier Services Indicates a customer request to enroll in the service defined in LIN03 (Gas Delivery)	M AN 2/2

**Segment:** **ASI** **Action or Status Indicator**  
**Position:** 020  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the action to be taken with the information provided or the status of the entity described

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

Request: Required  
Response: Required  
ASI\*7\*021 - (814E)  
ASI\*WQ\*021 - (814SE - Successful)  
ASI\*U\*021 - (814ER - Reject)

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ASI01	306	<b>Action Code</b> Code indicating type of action 7 Request U Reject WQ Accept	M ID 1/2
M	ASI02	875	<b>Maintenance Type Code</b> Code identifying the specific type of item maintenance 021 Addition Use when requesting or confirming a new service.	M ID 3/3



<b>Segment:</b>	<b>REF</b>	<b>Reject Reasons</b>
<b>Position:</b>	030	
<b>Loop:</b>	LIN	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	>1	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	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.
<b>Semantic Notes:</b>	1	REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>		
<b>Notes:</b>	Request: Not Used Response: Required for reject response only REF*7G*DIV (example only)	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b>	M ID 2/3
			Code qualifying the Reference Identification	
			7G Data Quality Reject Reason	
M	REF02	127	<b>Reference Identification</b>	M AN 3/3
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			008 Account exists but is not active	
			A13 Other - see REF03	
			A76 Account not found	
			A91 Service is not offered at customer's location	
			Invalid Service Indicator	
			ABN Duplicate request received	
			ACI Action Code (ASI01) Invalid	
			ANE Account Not Eligible	
			ANL Service provider not licensed to provide requested service	
			DIV Date Invalid	
			FRB Incorrect Billing Option (REF*BLT) Requested	
			MNM The meter number does not match any meter associated with the account	
			NFI Not First In	
			TEI Tax Exemption Percentage (AMT*DP or AMT*T)	
			Invalid	
			UND Cannot identify ESP	
			UNE Cannot identify LDC	
			W05 Requested Rate not found (Complete Billing)	
	REF03	352	<b>Description</b>	O AN 1/80
			A free-form description to clarify the related data elements and their content	
			Used to further describe the status reason code sent in REF02.	
			DRP Invalid Designated Receipt Point	
			PG Used to reject an invalid Public Aggregator.	

**Segment:** **REF** **Supplier Account Number for Customer**  
**Position:** 030  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:**  
Request: Optional  
Response: Required if Supplied on Request  
REF\*11\*2348400586

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Supplier assigned account number for end use customer	
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	
			Account Number	

**Segment:** **REF** LDC Account Number for Customer  
**Position:** 030  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:**  
Request: Required  
Response: Required  
REF\*12\*2931839200

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			LDC Company assigned account number for end use customer	
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	
			Account Number	

<b>Segment:</b>	<b>REF</b> Old LDC Account Number for Customer
<b>Position:</b>	030
<b>Loop:</b>	LIN Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	
<b>Notes:</b>	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	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			LDC Company previous account number for the end use customer.	
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 previous account number for the customer.	

**Segment:** **REF** **Public Aggregator**  
**Position:** 030  
**Loop:** LIN Mandatory  
**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:**  
Request: Optional  
Response: Optional  
REF\*PG\*1234

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification PG Product Group Aggregator Code	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Public Aggregator Number	M AN 1/4

**Segment:** **REF** LDC Billing Cycle  
**Position:** 030  
**Loop:** LIN Mandatory  
**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:**  
Request: Not Used  
Response: Required  
REF\*BF\*15

#### Data Element Summary

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

**Segment:** **REF** **Billing Option**  
**Position:** 030  
**Loop:** LIN Mandatory  
**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:**  
Request: Required  
Response: Required  
REF\*BLT\*LDC

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			BLT	Billing Type
				Identifies whether the bill is consolidated by the Distribution Company or whether each party will render their own bill. See REF02 for valid values.
M	REF02	127	Reference Identification	M AN 3/4
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			DUAL	Each party bills the customer for its portion - also known as Passthrough
			LDC	The Distribution Company bills the customer for both Distribution and Supplier Service Charges - also known as Complete Billing.

**Segment:** **NM1 Meter/Unmetered Information**  
**Position:** 080  
**Loop:** NM1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To supply the full name of an individual or organizational entity  
**Syntax Notes:** 1 If either NM108 or NM109 is present, then the other is required.  
2 If NM111 is present, then NM110 is required.  
**Semantic Notes:** 1 NM102 qualifies NM103.  
**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.  
**Notes:** Request: Required  
Response: Required  
NM1\*MQ\*3\*\*\*\*\*93\*1234567

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	NM101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location Meter Level Information Change - use when changing existing Meter level Information or Attribute(s) for an existing Meter. Also used when enrolling a customer for the first time.	M ID 2/3
M	NM102	1065	<b>Entity Type Qualifier</b> Code qualifying the type of entity 3 Unknown	M ID 1/1
M	NM108	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 32 Assigned by Property Operator Meter Number 93 Code assigned by the organization originating the transaction set This code used when a Meter Number is NOT provided in NM109 (i.e., when NM109 contains "UNMETERED").	M ID 1/2
M	NM109	67	<b>Identification Code</b> Code identifying a party or other code Meter Number UNMETERED - for Unmetered Services	M AN 2/80



**Segment:** **REF** LDC Rate Code  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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:**  
Request: Not Used  
Response: Required  
REF\*NH\*RS1

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			NH Rate Card Number	
			Identifies a Distribution 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:** 130  
**Loop:** NM1 Mandatory  
**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 is only used when complete billing is chosen.  
REF\*RB\*A29

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			RB Rate code number	
			Supplier Rate Code for the customer	
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	
			Supplier Rate Code	

<b>Segment:</b>	<b>REF</b>	<b>Supplier Rate Code 2</b>
<b>Position:</b>	130	
<b>Loop:</b>	NM1	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.	
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.	
<b>Comments:</b>		
<b>Notes:</b>	This is only used when complete billing is chosen and can not be used in combination with REF*PR. Only one of REF*PL or REF*PR is valid.  REF*PL*A20	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			PL	Price List Number
				Used to indicate a second price code for a Supplier account.
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	
			Secondary Rate Code for Supplier	

<b>Segment:</b>	<b>REF</b>	<b>Supplier Rate Amount</b>
<b>Position:</b>	130	
<b>Loop:</b>	NM1	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Optional (Dependent)	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.	
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.	
<b>Comments:</b>		
<b>Notes:</b>	This is only used when complete billing is chosen and can not be used in combination with REF*PR. Only one of REF*PL or REF*PR is valid. This segment is only used when Supplier Rate Code 1 is used. Nstar is not supporting the REF*PR. 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	M ID 2/3
			Code qualifying the Reference Identification	
			PR Price Quote Number	
			Identifies a unit pricing category under a rate code	
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	
			Supplier Rate Amount	
			Example: .0350 for 3.5 cents	

**Segment:** **REF** **Designated Receipt Point**  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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:**  
Request: Not Used  
Response: Required  
REF\*SPL\*1234567

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			SPL	Standard Point Location Code (SPLC)
			City gate number	
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	
			city gate number	

**Segment:** **REF** **Service Indicator**  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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:**  
Request: Required  
Response: Required  
REF\*17\*D  
REF\*17\*N

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			17 Client Reporting Category	
			Used as an identifier for the type of Distribution Service to be provided to the Customer in conjunction with Supplier Services.	
M	REF02	127	Reference Identification	M AN 1/5
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			D Daily Metered Distribution Service	
			N Non Daily Metered Distribution Service	

**Segment:** **REF** Sales Tax Indicator  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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 is only used on complete billing for sales tax on the supplier side.  
REF\*TX\*1

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			TX Tax Exempt Number	
			Indicates if the service is taxable or exempt.	
M	REF02	127	Reference Identification	M AN 1/5
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			0 Tax exempt	
			1 100% taxable	

**Segment:** **REF** **Total Capacity Quantity (in therms)**  
**Position:** 130  
**Loop:** NM1 Mandatory  
**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:**  
Request: Not Used  
Response: Required  
REF\*MT\*T\*14

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification MT Meter Ticket Number Meter type. Used to identify the type of consumption measured by this meter and the interval between measurements.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier T Indicates the measurement is in therms	M AN 1/5
M	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content Total therms (Gas). This field will be populated with "E" if the customer is exempt from the TCQ.	M AN 1/80



**Segment:** **DTM** **Effective Date of Service**  
**Position:** 140  
**Loop:** NM1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**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:**

Request: Not Used  
Response: Required  
DTM\*150\*19990101

#### 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	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
			Date that the service with the Supplier will start.	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

**Segment:** **SE Transaction Set Trailer**  
**Position:** 150  
**Loop:**  
**Level:** Detail  
**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:**  
Request: Required  
Response: Required  
SE\*28\*000000001

**Data Element Summary**

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

# **Massachusetts Gas Implementation Guideline**

For

## **Electronic Data Interchange**

TRANSACTION SET

# **814**

**Historical Usage  
Request and Response  
Ver/Rel 004010**

# 814 General Request, Response or Confirmation

Functional Group ID=**GE**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the General Request, Response or Confirmation Transaction Set (814) for use within the context of an Electronic Data Interchange (EDI) environment. This standard can be used to request actions to be performed, to respond to a request for actions to be performed or to confirm information related to actions performed.

## 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	BGN	Beginning Segment	M	1		
LOOP ID - N1						1	
M	040	N1	LDC	M	1		n1
LOOP ID - N1						1	
M	040	N1	Supplier	M	1		n2

## 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 - LIN						>1	
M	010	LIN	Item Identification	M	1		
M	020	ASI	Action or Status Indicator	M	1		
	030	REF	Reject Reasons	O	>1		
M	030	REF	LDC Account Number for Customer	M	1		
LOOP ID - NM1						>1	
M	080	NM1	Meter/Unmetered Information	M	1		n3
M	150	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

1. The N1 loop is used to identify the transaction sender and receiver.
2. The N1 loop is used to identify the transaction sender and receiver.
3. The NM1 loop is used to identify the parties associated with the individual line item (LIN), such as an individual consumer in a consolidated third party Consumer Service Provider transaction.

<b>Segment:</b>	<b>ST</b>	<b>Transaction Set Header</b>
<b>Position:</b>	010	
<b>Loop:</b>		
<b>Level:</b>	Heading	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To indicate the start of a transaction set and to assign a control number	
<b>Syntax Notes:</b>		
<b>Semantic Notes:</b>	<b>1</b> 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).	
<b>Comments:</b>		
<b>Notes:</b>	Request: Required Response: Required ST*814*000000001	

#### Data Element Summary

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
M	ST01	143	<b>Transaction Set Identifier Code</b>	M ID 3/3
			Code uniquely identifying a Transaction Set	
			814 General Request, Response or Confirmation	
M	ST02	329	<b>Transaction Set Control Number</b>	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:** **BGN** Beginning Segment  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a transaction set  
**Syntax Notes:** 1 If BGN05 is present, then BGN04 is required.  
**Semantic Notes:** 1 BGN02 is the transaction set reference number.  
2 BGN03 is the transaction set date.  
3 BGN04 is the transaction set time.  
4 BGN05 is the transaction set time qualifier.  
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

**Comments:**

**Notes:**

Request: Required  
Response: Required  
For BGN 01 use the following:  
  
814E - 814CS - 814CL - 814DC - 814DS - 814H use 13 request  
  
814SE - 814ER - 814CC - 814DR use 11 response  
BGN\*13\*199904011956531\*19990401  
BGN\*11\*199904011956531\*19990402

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BGN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 11 Response Signifies that the requested service will be addressed as described in this transaction. 13 Request	M ID 2/2
M	BGN02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier On the request, this is a unique transaction identification number assigned by the originator of this transaction. On the response, the tracking number from the request is echoed back in this BGN02.	M AN 1/30
M	BGN03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M DT 8/8

**Segment:** **N1** LDC  
**Position:** 040  
**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:**  
Request: Required  
Response: Required  
N1\*8S\*LDC COMPANY\*1\*007909411\*\*40 (as Receiver)  
N1\*8S\*LDC COMPANY\*9\*0079094110001\*\*40 (as Receiver)  
N1\*8S\*LDC COMPANY\*1\*007909411\*\*41 (as Sender)  
N1\*8S\*LDC COMPANY\*9\*0079094110001\*\*41 (as Sender)

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
		8S	Consumer Service Provider (CSP)	
			LDC	
M	N102	93	Name	M AN 1/60
			Free-form name	
			LDC Company 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 9/13
			Code identifying a party or other code	
			This is the LDC's 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	
		41	Submitter	

**Segment:** **N1 Supplier**  
**Position:** 040  
**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:**  
Request: Required  
Response: Required  
N1\*SJ\*ESP COMPANY\*9\*0079094220001\*\*41 (as Sender)  
N1\*SJ\*ESP COMPANY\*1\*007909422\*\*41 (as Sender)  
N1\*SJ\*ESP COMPANY\*9\*0079094220001\*\*40 (as Receiver)  
N1\*SJ\*ESP COMPANY\*1\*007909422\*\*40 (as Receiver)

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
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 9/13
			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	
		41	Submitter	



<b>Segment:</b>	<b>LIN</b>	<b>Item Identification</b>
<b>Position:</b>	010	
<b>Loop:</b>	LIN	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify basic item identification data	
<b>Syntax Notes:</b>	1	If either LIN04 or LIN05 is present, then the other is required.
	2	If either LIN06 or LIN07 is present, then the other is required.
	3	If either LIN08 or LIN09 is present, then the other is required.
	4	If either LIN10 or LIN11 is present, then the other is required.
	5	If either LIN12 or LIN13 is present, then the other is required.
	6	If either LIN14 or LIN15 is present, then the other is required.
	7	If either LIN16 or LIN17 is present, then the other is required.
	8	If either LIN18 or LIN19 is present, then the other is required.
	9	If either LIN20 or LIN21 is present, then the other is required.
	10	If either LIN22 or LIN23 is present, then the other is required.
	11	If either LIN24 or LIN25 is present, then the other is required.
	12	If either LIN26 or LIN27 is present, then the other is required.
	13	If either LIN28 or LIN29 is present, then the other is required.
	14	If either LIN30 or LIN31 is present, then the other is required.
<b>Semantic Notes:</b>	1	LIN01 is the line item identification
<b>Comments:</b>	1	See the Data Dictionary for a complete list of IDs.
	2	LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
<b>Notes:</b>	Request: Required	
	Response: Required	
	LIN*HU199912310800000002*SH*GAS*SH*HU (Historical Usage)	

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LIN01	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set On the request, this is a unique tracking number. Only one LIN loop per transaction.	M AN 1/20
M	LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
M	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service GAS Gas Service Indicates a customer request to obtain gas service.	M AN 1/48
M	LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested	M ID 2/2
M	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service HU Historical Usage Indicates an ESP request to obtain historical usage information for this customer. This information would be returned on an EDI 867.	M AN 2/2

**Segment:** **ASI** **Action or Status Indicator**  
**Position:** 020  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the action to be taken with the information provided or the status of the entity described

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:**

Request: Required  
Response: Required  
ASI\*U\*029 - (814ER - Reject)  
ASI\*7\*029 - (814H)

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ASI01	306	<b>Action Code</b>	M ID 1/2
			Code indicating type of action	
			7 Request	
			U Reject	
M	ASI02	875	<b>Maintenance Type Code</b>	M ID 3/3
			Code identifying the specific type of item maintenance	
			029 Inquiry	
			Use when requesting the following service:	
			HU - Historical Usage	

**Segment:** **REF** **Reject Reasons**  
**Position:** 030  
**Loop:** LIN Mandatory  
**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:**

Request: Not Used  
Response: Required for Error Response  
REF\*7G\*DIV (example only)

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 7G Data Quality Reject Reason	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier 008 Account exists but is not active A76 Account not found ABN Duplicate request received ACI Action Code (ASI01) Invalid HUU Historical usage unavailable MNM The meter number does not match any meter associated with the account UND Cannot identify ESP UNE Cannot identify LDC	M AN 3/3

**Segment:** **REF** LDC Account Number for Customer  
**Position:** 030  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:** Request: Required  
Response: Required  
REF\*12\*2931839200

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			LDC Company assigned account number for end use customer	
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	
			Account Number	

**Segment:** **NM1 Meter/Unmetered Information**  
**Position:** 080  
**Loop:** NM1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To supply the full name of an individual or organizational entity  
**Syntax Notes:** 1 If either NM108 or NM109 is present, then the other is required.  
2 If NM111 is present, then NM110 is required.  
**Semantic Notes:** 1 NM102 qualifies NM103.  
**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.  
**Notes:** Request: Required  
Response: Required  
NM1\*MQ\*3\*\*\*\*\*93\*1234567

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	NM101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location Meter Level Information Change - use when changing existing Meter level Information or Attribute(s) for an existing Meter. Also used when enrolling a customer for the first time.	M ID 2/3
M	NM102	1065	<b>Entity Type Qualifier</b> Code qualifying the type of entity 3 Unknown	M ID 1/1
M	NM108	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 32 Assigned by Property Operator Meter Number 93 Code assigned by the organization originating the transaction set This code used when a Meter Number is NOT provided in NM109 (i.e., when NM109 contains "UNMETERED").	M ID 1/2
M	NM109	67	<b>Identification Code</b> Code identifying a party or other code Meter Number UNMETERED - for Unmetered Services	M AN 2/80

**Segment:** **SE** **Transaction Set Trailer**  
**Position:** 150  
**Loop:**  
**Level:** Detail  
**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:**  
Request: Required  
Response: Required  
SE\*28\*000000001

**Data Element Summary**

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

# Massachusetts Gas Implementation Guideline

## For **Electronic Data Interchange**

TRANSACTION SET

# 820

## Payment/Remittance

Ver/Rel 004010

# 820 Payment Order/Remittance Advice

Functional Group ID=**RA**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Payment Order/Remittance Advice Transaction Set (820) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to make a payment, send a remittance advice, or make a payment and send a remittance advice. This transaction set can be an order to a financial institution to make a payment to a payee. It can also be a remittance advice identifying the detail needed to perform cash application to the payee's accounts receivable system. The remittance advice can go directly from payer to payee, through a financial institution, or through a third party agent.

## 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	BPR	Beginning Segment for Payment Order/Remittance Advice	M	1		
	050	REF	Remittance Tracking Number	O	>1		
M	060	DTM	Creation Date	M	>1		
LOOP ID - N1						>1	
M	070	N1	LDC	M	1		c1
LOOP ID - N1						>1	
M	070	N1	Supplier	M	1		c2

## 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 - ENT						>1	
M	010	ENT	Entity	M	1		n1, c3
LOOP ID - RMR						>1	
M	150	RMR	Remittance Advice Accounts Receivable Open Item Reference	M	1		c4
M	170	REF	Supplier Account Number for Customer	M	>1		
	170	REF	Old LDC Account Number for Customer	O	>1		
	180	DTM	Date/Time Reference	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	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

1. The ENT loop is for vendor or consumer third party consolidated payments.

## Transaction Set Comments

1. The N1 loop allows for name/address information for the payer and payee which would be utilized to address remittance(s) for delivery.



2. The N1 loop allows for name/address information for the payer and payee which would be utilized to address remittance(s) for delivery.
3. ENT09 may contain the payee's accounts receivable customer number.
4. Loop RMR is for open items being referenced or for payment on account.

**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\*820\*000000001

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			820 Payment Order/Remittance Advice	
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:** **BPR** **Beginning Segment for Payment Order/Remittance Advice**  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a Payment Order/Remittance Advice Transaction Set and total payment amount, or to enable related transfer of funds and/or information from payer to payee to occur

**Syntax Notes:**

- 1 If either BPR06 or BPR07 is present, then the other is required.
- 2 If BPR08 is present, then BPR09 is required.
- 3 If either BPR12 or BPR13 is present, then the other is required.
- 4 If BPR14 is present, then BPR15 is required.
- 5 If either BPR18 or BPR19 is present, then the other is required.
- 6 If BPR20 is present, then BPR21 is required.

**Semantic Notes:**

- 1 BPR02 specifies the payment amount.
- 2 When using this transaction set to initiate a payment, all or some of BPR06 through BPR16 may be required, depending on the conventions of the specific financial channel being used.  
BPR06 and BPR07 relate to the originating depository financial institution (ODFI).
- 3 BPR08 is a code identifying the type of bank account or other financial asset.
- 4 BPR09 is the account of the company originating the payment. This account may be debited or credited depending on the type of payment order.
- 5 BPR12 and BPR13 relate to the receiving depository financial institution (RDFI).
- 6 BPR14 is a code identifying the type of bank account or other financial asset.
- 7 BPR15 is the account number of the receiving company to be debited or credited with the payment order.
- 8 BPR16 is the date the originating company intends for the transaction to be settled (i.e., Payment Effective Date).
- 9 BPR17 is a code identifying the business reason for this payment.
- 10 BPR18, BPR19, BPR20 and BPR21, if used, identify a third bank identification number and account to be used for return items only.
- 11 BPR20 is a code identifying the type of bank account or other financial asset.

**Comments:**

**Notes:** BPR\*I\*1000.00\*C\*ACH\*\*\*\*\*19990220

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BPR01	305	<b>Transaction Handling Code</b>		M ID 1/2
				Code designating the action to be taken by all parties	
			I	Remittance Information Only	
M	BPR02	782	<b>Monetary Amount</b>		M R 1/18
				Monetary amount	
				This amount is always positive.	
M	BPR03	478	<b>Credit/Debit Flag Code</b>		M ID 1/1
				Code indicating whether amount is a credit or debit	
			C	Credit	
				Credit is when monies are due to Supplier. From LDC to Supplier.	
			D	Debit	
				Debit is when monies are owed to LDC. Supplier to LDC.	
	BPR04	591	<b>Payment Method Code</b>		O ID 3/3
				Code identifying the method for the movement of payment instructions	
				This is only used when the BPR 03 is a credit.	
			ACH	Automated Clearing House (ACH)	

CHK Check  
FEW Federal Reserve Funds/Wire Transfer Repetitive  
FWT Federal Reserve Funds/Wire Transfer Non-repetitive

**BPR16 373 Date O DT 8/8**

Date expressed as CCYYMMDD

The date the originating company intends for the transaction to be settled (i.e., Payment Effective Date).

**Segment:** **REF** **Remittance Tracking Number**  
**Position:** 050  
**Loop:**  
**Level:** Heading  
**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 is required when this is a credit situation. Monies owed from LDC to Supplier.  
Remittance tracking number. This would be the ACH number, wire transfer reference  
number or check number that would accompany this payment.  
REF\*TN\*99887700

#### Data Element Summary

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

**Segment:** **DTM** **Creation Date**  
**Position:** 060  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** >1  
**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\*097\*20000102

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	M ID 3/3
			Code specifying type of date or time, or both date and time	
			097 Transaction Creation	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

**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			
Des.	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		
		8S Consumer Service Provider (CSP)		
		Distribution Company		
M	N102	93 Name	M AN 1/60	
		Free-form name		
		This is the Distribution's Company 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		
		41 Submitter		

**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			
Des.	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:** **ENT** Entity  
**Position:** 010  
**Loop:** ENT Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:**

To designate the entities which are parties to a transaction and specify a reference meaningful to those entities

- Syntax Notes:**
- 1 If any of ENT02 ENT03 or ENT04 is present, then all are required.
  - 2 If any of ENT05 ENT06 or ENT07 is present, then all are required.
  - 3 If either ENT08 or ENT09 is present, then the other is required.

**Semantic Notes:**

- Comments:**
- 1 This segment allows for the grouping of data by entity/entities at or within a master/masters. A master (e.g., an organization) can be comprised of numerous subgroups (e.g., entities). This master may send grouped data to another master (e.g., an organization) which is comprised of one or more entities. Groupings are as follows:
    - (1) Single/Single: Only ENT01 is necessary, because there is a single entity (the sending master) communicating with a single entity (the receiving master).
    - (2) Single/Multiple: ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. The sending master is a single entity, so no other data elements need be used.
    - (3) Multiple/Single: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. The receiving master is a single entity, so no other data elements need be used.
    - (4) Multiple/Multiple: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master.

This segment also allows for the transmission of a unique reference number that is meaningful between the entities.

**Notes:** ENT\*1

**Data Element Summary**

Ref.	Data		Attributes
Des.	Element	Name	
ENT01	554	Assigned Number	O N0 1/6
		Number assigned for differentiation within a transaction set	

**Segment:** **RMR** **Remittance Advice Accounts Receivable Open Item Reference**  
**Position:** 150  
**Loop:** RMR Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail

**Syntax Notes:** 1 If either RMR01 or RMR02 is present, then the other is required.  
2 If either RMR07 or RMR08 is present, then the other is required.

**Semantic Notes:** 1 If RMR03 is present, it specifies how the cash is to be applied.  
2 RMR04 is the amount paid.  
3 RMR05 is the amount of invoice (including charges, less allowance) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items.  
4 RMR06 is the amount of discount taken.  
5 RMR08, if present, represents an interest penalty payment, amount late interest paid, or amount anticipation.

**Comments:** 1 Parties using this segment should agree on the content of RMR01 and RMR02 prior to initiating communication.  
2 If RMR03 is not present, this is a payment for an open item. If paying an open item, RMR02 must be present. If not paying a specific open item, RMR04 must be present.  
3 RMR05 may be needed by some payees to distinguish between duplicate reference numbers.

**Notes:** RMR\*12\*334455\*PO\*1000.00

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	RMR01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 12 Billing Account LDC Account Number for Customer	M ID 2/3
M	RMR02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier LDC Account Number for Customer	M AN 1/30
M	RMR03	482	<b>Payment Action Code</b> Code specifying the accounts receivable open item(s), if any, to be included in the cash application. AJ Adjustment The use of AJ is limited to the following: - Misapplied Payment - Returned check For example, if \$100 is sent to Energy Supplier #1, but the payment is not for an account of Energy Supplier #1, but is an account of Energy Supplier #2. The Utility would send \$100 payment to Energy Supplier #2, and an AJ code with \$100 credit to Energy Supplier #1. This can be either a positive or negative amount and is signed in RMR08.	M ID 2/2
			PO Payment on Account This will always be a positive amount and can be found in RMR04.	

**M RMR04 782 Monetary Amount** **O R 1/18**

Monetary amount

The payment/adjustment amount. This amount is summed in BPR02. This will match RMR08 if RMR08 is used.

**RMR07 426 Adjustment Reason Code** **O ID 2/2**

Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment

72 Authorized Return

Returned Check

D1 Transfer Between Accounts

Misapplied payments

**RMR08 782 Monetary Amount** **O R 1/18**

Monetary amount

The adjustment amount. This amount should be signed if negative. For an adjustment to this current payment, this amount is also in RMR04.

**Segment:** **REF** **Supplier Account Number for Customer**  
**Position:** 170  
**Loop:** RMR Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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\*11\*2348400586

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Supplier assigned account number for end use customer	
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	
			Account Number	

<b>Segment:</b>	<b>REF</b> Old LDC Account Number for Customer
<b>Position:</b>	170
<b>Loop:</b>	RMR Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	>1
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 REF04 contains data relating to the value cited in REF02.</li> </ol>
<b>Comments:</b>	
<b>Notes:</b>	<p>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.</p> <p>REF*45*2348400586</p>

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			LDC previous account number for the end use customer.	
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 previous account number for the customer.	

**Segment:** **DTM** **Date/Time Reference**  
**Position:** 180  
**Loop:** RMR Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**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\*809\*19990428

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	M ID 3/3
			Code specifying type of date or time, or both date and time	
			809 Posted	
			Payment Posting Date	
	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

**Segment:** **SE** **Transaction Set Trailer**  
**Position:** 010  
**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\*28\*000000001

**Data Element Summary**

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

# **Massachusetts Gas Implementation Guideline**

## **For Electronic Data Interchange**

TRANSACTION SET

# **824**

## **Application Advice**

Ver/Rel 004010



# 824 Application Advice

Functional Group ID=**AG**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Application Advice Transaction Set (824) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide the ability to report the results of an application system's data content edits of transaction sets. The results of editing transaction sets can be reported at the functional group and transaction set level, in either coded or free-form format. It is designed to accommodate the business need of reporting the acceptance, rejection or acceptance with change of any transaction set. The Application Advice should not be used in place of a transaction set designed as a specific response to another transaction set (e.g., purchase order acknowledgment sent in response to a purchase order).

## Heading:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BGN	Beginning Segment	M	1		
LOOP ID - N1							>1
M	030	N1	LDC	M	1		
LOOP ID - N1							>1
M	030	N1	Supplier	M	1		
LOOP ID - N1							>1
M	030	N1	Customer	M	1		
M	070	REF	LDC Account Number for Customer	M	12		
M	070	REF	Supplier Account Number for Customer	M	12		
	070	REF	OLD LDC Account Number for Customer	O	12		

## Detail:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
LOOP ID - OTI							1
M	010	OTI	Original Transaction Identification	M	1		n1
	020	REF	Reference Identification (Meter Number)	O	12		n2
LOOP ID - TED							>1
M	070	TED	Technical Error Description	M	1		
	080	NTE	Note/Special Instruction	O	100		
M	090	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

1. The OTI loop is intended to provide a unique identification of the transaction set that is the subject of this application acknowledgment.
2. The REF segment allows for the provision of secondary reference identification or numbers required to uniquely identify the original transaction set. The primary reference identification or number should be provided in elements OTI02-03.

**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\*824\*00000001

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 824 Application Advice	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

**Segment:** **BGN Beginning Segment**  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a transaction set  
**Syntax Notes:** 1 If BGN05 is present, then BGN04 is required.  
**Semantic Notes:** 1 BGN02 is the transaction set reference number.  
2 BGN03 is the transaction set date.  
3 BGN04 is the transaction set time.  
4 BGN05 is the transaction set time qualifier.  
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

**Comments:**

**Notes:** BGN\*11\*199907111230001\*19990711\*\*\*\*\*82

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BGN01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 11 Response	M ID 2/2
M	BGN02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identification number assigned by the originator of this transaction.	M AN 1/30
M	BGN03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M DT 8/8
M	BGN08	306	<b>Action Code</b> Code indicating type of action 82 Follow Up Indicates that the receiver of the transaction must investigate and resend if necessary.	M ID 1/2

**Segment:** **N1** LDC  
**Position:** 030  
**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\*\*40  
N1\*8S\*LDC COMPANY\*9\*007909411LDCC\*\*41

#### Data Element Summary

Ref.	Data			
Des.	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		
		8S Consumer Service Provider (CSP)		
		LDC		
M	N102	93 Name	M AN 1/60	
		Free-form name		
		LDC'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		
		LDC D-U-N-S Number or D-U-N-S + 4 Number		
M	N106	98 Entity Identifier Code	M ID 2/3	
		Code identifying an organizational entity, a physical location, property or an individual		
		40 Receiver		
		41 Submitter		

**Segment:** **N1 Supplier**  
**Position:** 030  
**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\*SUPPLIER COMPANY\*9\*007909422ESP1\*\*40  
N1\*SJ\*SUPPLIER COMPANY\*1\*0070909422\*\*41

#### Data Element Summary

Ref.	Data			
Des.	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		
		Supplier 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		
		Supplier D-U-N-S Number or D-U-N-S + 4 Number		
M	N106	98 Entity Identifier Code	M ID 2/3	
		Code identifying an organizational entity, a physical location, property or an individual		
		40 Receiver		
		41 Submitter		

**Segment:** **N1 Customer**  
**Position:** 030  
**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\*8R

#### Data Element Summary

M	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
		8R	Consumer Service Provider (CSP) Customer	
			Customer	

**Segment:** **REF** LDC Account Number for Customer  
**Position:** 070  
**Loop:** N1 Mandatory  
**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\*33445566

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			LDC Account Number for Customer	
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	
			Account Number	

**Segment:** **REF** **Supplier Account Number for Customer**  
**Position:** 070  
**Loop:** N1 Mandatory  
**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\*223344

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Supplier Account Number for Customer	
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	
			Account Number	



<b>Segment:</b>	<b>REF</b>	<b>OLD LDC Account Number for Customer</b>
<b>Position:</b>	070	
<b>Loop:</b>	N1	Mandatory
<b>Level:</b>	Heading	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	12	
<b>Purpose:</b>	To specify identifying information	
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.	
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.	
<b>Comments:</b>		
<b>Notes:</b>	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*99887766	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45	Old Account Number
			OLD LDC Account Number for Customer	
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 previous account number for the customer.	

<b>Segment:</b>	<b>OTI</b>	<b>Original Transaction Identification</b>
<b>Position:</b>	010	
<b>Loop:</b>	OTI	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To identify the edited transaction set and the level at which the results of the edit are reported, and to indicate the accepted, rejected, or accepted-with-change edit result	
<b>Syntax Notes:</b>	1 If OTI09 is present, then OTI08 is required.	
<b>Semantic Notes:</b>	1 OTI03 is the primary reference identification or number used to uniquely identify the original transaction set. 2 OTI06 is the group date. 3 OTI07 is the group time. 4 If OTI11 is present, it will contain the version/release under which the original electronic transaction was translated by the receiver. 5 OTI12 is the purpose of the original transaction set, and is used to assist in its unique identification. 6 OTI13 is the type of the original transaction set, and is used to assist in its unique identification. 7 OTI14 is the application type of the original transaction set, and is used to assist in its unique identification. 8 OTI15 is the type of action indicated or requested by the original transaction set, and is used to assist in its unique identification. 9 OTI16 is the action requested by the original transaction set, and is used to assist in its unique identification. 10 OTI17 is the status reason of the original transaction set, and is used to assist in its unique identification.	
<b>Comments:</b>	1 OTI02 contains the qualifier identifying the business transaction from the original business application, and OTI03 will contain the original business application identification. 2 If used, OTI04 through OTI08 will contain values from the original electronic functional group generated by the sender. 3 If used, OTI09 through OTI10 will contain values from the original electronic transaction set generated by the sender.	
<b>Notes:</b>	OTI*TR*TN*1999010100001*****867	

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	OTI01	110	<b>Application Acknowledgment Code</b>	M ID 1/2
			Code indicating the application system edit results of the business data	
			TR Transaction Set Reject	
M	OTI02	128	<b>Reference Identification Qualifier</b>	M ID 2/3
			Code qualifying the Reference Identification	
			TN Transaction Reference Number	
			This data element is populated from the following data elements of the original transaction:	
			810 - BIG02	
			820 - REF02 - Tracking Number	
			867 - BPT02	
			248 - BHT03	
M	OTI03	127	<b>Reference Identification</b>	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			This data element is populated from the following data elements of the original transaction.	
M	OTI10	143	<b>Transaction Set Identifier Code</b>	M ID 3/3

Code uniquely identifying a Transaction Set

248	Account Assignment/Inquiry and Service Status
	Write-off
810	Invoice
820	Payment Order/Remittance Advice
867	Product Transfer and Resale Report

**Segment:** **REF** **Reference Identification (Meter Number)**  
**Position:** 020  
**Loop:** OTI Mandatory  
**Level:** Detail  
**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:** REF\*MG\*1234567

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

<b>Segment:</b>	<b>TED</b>	<b>Technical Error Description</b>
<b>Position:</b>	070	
<b>Loop:</b>	TED	Mandatory
<b>Level:</b>	Detail	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To identify the error and, if feasible, the erroneous segment, or data element, or both	
<b>Syntax Notes:</b>		
<b>Semantic Notes:</b>		
<b>Comments:</b>	1 If used, TED02 will contain a generic description of the data in error (e.g., part number, date, reference number, etc.).	
<b>Notes:</b>	Only one error per inbound transaction is permitted	
	TED*848*A76	

Data Element Summary				
	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	TED01	647	Application Error Condition Code	M ID 1/3
			Code indicating application error condition	
			848 Incorrect Data	
M	TED02	3	Free Form Message	M AN 1/60
			Free-form text	
		008	Account exists but is not active	
			Valid for 810-S	
			EXAMPLE: Adjustment sent after the right off has been made.	
		A13	Other	
			Valid for 248, 810, 820, 867	
			See NTE for further definition of error.	
		A74	Energy Supplier account invalid or not found	
			Valid for 810-B, 810-S, 867-M, 248, 820	
		A76	Utility Account Invalid or Not Found	
			Valid for 810-S, 810-B, 867-M, 248, 820	
		CRI	Cross Reference Number Invalid	
			The cross reference number provided on the 810 does not match the cross reference number on an open 867.	
		D76	D-U-N-S Number Invalid or Not Found	
		DIV	Invalid or missing date	
			Valid for 248, 810-B, 820, 867-M	
		FRF	Bill Type Mismatch	
			An 810 was received by the Billing Party for a customer that is listed as having a different bill option.	
		IAA	Invalid Adjustment Amount	
		IAC	Invalid Adjustment Code	
		SUM	Sum of Details does not equal total	
			Valid for 820	

**Segment:** **NTE** **Note/Special Instruction**  
**Position:** 080  
**Loop:** TED Mandatory  
**Level:** Detail  
**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 to further describe the status reason code A13 sent in TED02.  
NTE\*ADD\*PG

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
<b>M</b>	<b>NTE01</b>	<b>363</b>	<b>Note Reference Code</b>	<b>M ID 3/3</b>
			Code identifying the functional area or purpose for which the note applies	
			ADD Additional Information	
<b>M</b>	<b>NTE02</b>	<b>352</b>	<b>Description</b>	<b>M AN 1/80</b>
			A free-form description to clarify the related data elements and their content	
			Rejection Reason Text to define A13 from TED02.	
			METER Meter Account Mismatch	

**Segment:** **SE** **Transaction Set Trailer**  
**Position:** 090  
**Loop:**  
**Level:** Detail  
**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:** ST\*28\*000001

#### Data Element Summary

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

# Massachusetts Gas Implementation Guideline

For  
**Electronic Data Interchange**

TRANSACTION SET

# 867

## Historical Usage

Ver/Rel 004010



# 867 Product Transfer and Resale Report

Functional Group ID=**PT**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Transfer and Resale Report Transaction Set (867) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to: (1) report information about product that has been transferred from one location to another; (2) report sales of product from one or more locations to an end customer; or (3) report sales of a product from one or more locations to an end customer, and demand beyond actual sales (lost orders). Report may be issued by either buyer or seller.

## 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	BPT	Beginning Segment for Product Transfer and Resale	M	1		
			LOOP ID - N1			5	
M	080	N1	LDC	M	1		
			LOOP ID - N1			5	
M	080	N1	Supplier	M	1		
			LOOP ID - N1			5	
M	080	N1	Customer Information on Billing Option	M	1		
M	120	REF	LDC Account Number for Customer	M	12		
M	120	REF	Supplier Account Number for Customer	M	12		
	120	REF	Old LDC Account Number for Customer	O	12		
M	120	REF	Service Type	M	12		

## 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 - PTD			>1	
M	010	PTD	Historical Usage - Metered Services Detail	M	1		
M	030	REF	Service Indicator	M	20		
M	030	REF	Designated Receipt Point	M	20		
M	030	REF	LDC Rate Code	M	20		
			LOOP ID - QTY			>1	
M	110	QTY	Quantity	M	1		
M	160	MEA	Measurements - Billing Demand	M	40		
M	160	MEA	Measurements - Therm Conversion Factor	M	40		
M	160	MEA	Measurements - TCQ	M	40		
M	210	DTM	Service Period Start & End	M	10		

## 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	030	SE	Transaction Set Trailer	M	1		

**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\*867\*000000001

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			867 Product Transfer and Resale Report	
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:** **BPT** **Beginning Segment for Product Transfer and Resale**  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of the Product Transfer and Resale Report Transaction Set and transmit identifying data  
**Syntax Notes:** 1 If either BPT05 or BPT06 is present, then the other is required.  
**Semantic Notes:** 1 BPT02 identifies the transfer/resale number.  
2 BPT03 identifies the transfer/resale date.  
3 BPT08 identifies the transfer/resale time.  
4 BPT09 is used when it is necessary to reference a Previous Report Number.  
**Comments:**  
**Notes:** BPT\*52\*1999070112300001\*19990701\*DD

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BPT01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 52 Response to Historical Inquiry Response to a request for historical meter reading	M ID 2/2
M	BPT02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time.	M AN 1/30
M	BPT03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the application system.	M DT 8/8
M	BPT04	755	<b>Report Type Code</b> Code indicating the title or contents of a document, report or supporting item DD Distributor Inventory Report Usage	M ID 2/2

**Segment:** **N1** LDC  
**Position:** 080  
**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			
Des.	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		
		8S Consumer Service Provider (CSP)		
		LDC		
M	N102	93 Name	M AN 1/60	
		Free-form name		
		LDC 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		
		LDC DUNS 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		
		41 Submitter		

**Segment:** **N1 Supplier**  
**Position:** 080  
**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

M	Ref. Des.	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 Supplier 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 Supplier DUNS number with or without +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:** **N1** **Customer Information on Billing Option**  
**Position:** 080  
**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\*8R

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		8R Consumer Service Provider (CSP) Customer	

**Segment:** **REF** LDC Account Number for Customer  
**Position:** 120  
**Loop:** N1 Mandatory  
**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\*1239485790

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 12 Billing Account LDC Company -assigned account number for the end use customer.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> 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:** 120  
**Loop:** N1 Mandatory  
**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\*1394959

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Supplier assigned account number for the end use customer.	
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	
			Account Number	



<b>Segment:</b>	<b>REF</b> Old LDC Account Number for Customer
<b>Position:</b>	120
<b>Loop:</b>	N1 Mandatory
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	12
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 REF04 contains data relating to the value cited in REF02.</li> </ol>
<b>Comments:</b>	
<b>Notes:</b>	<p>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.</p> <p>REF*45*1234567</p>

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			LDC's previous account number for the customer.	
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 previous account number for the customer.	

**Segment:** **REF** **Service Type**  
**Position:** 120  
**Loop:** N1 Mandatory  
**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\*QY\*GAS

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			QY	Service Performed Code
			Commodity	
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	
			GAS	Gas Service

**Segment:** **PTD Historical Usage - Metered Services Detail**

**Position:** 010

**Loop:** PTD Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

**Syntax Notes:** 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

Required if providing Historical Usage by meter.

The PTD loop is required if there are metered services on the account. One PTD loop is required for each meter.

PTD\*PM\*\*\*MG\*1234568

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PTD01	521	<b>Product Transfer Type Code</b> Code identifying the type of product transfer PM Physical Meter Information Meter Services Detail	M ID 2/2
M	PTD04	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification MG Meter Number	M ID 2/3
M	PTD05	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Number	M AN 1/30

**Segment:** **REF** **Service Indicator**  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 20  
**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\*17\*D  
REF\*17\*N

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			17 Client Reporting Category	
			Used as an identifier for the type of Distribution Service to be provided to the Customer in conjunction with Supplier Services.	
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	
			D Daily Metered Distribution Service	
			N Non Daily Metered Distribution Service	

**Segment:** **REF** **Designated Receipt Point**  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 20  
**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\*SPL\*1234567

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			SPL	Standard Point Location Code (SPLC)
			City Gate	
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	
			City Gate	

**Segment:** **REF** LDC Rate Code  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 20  
**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\*A20

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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:** QTY Quantity  
**Position:** 110  
**Loop:** QTY Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify quantity information  
**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.  
2 Only one of QTY02 or QTY04 may be present.  
**Semantic Notes:** 1 QTY04 is used when the quantity is non-numeric.  
**Comments:**  
**Notes:**

Each QTY/MEA/DTM loop conveys consumption information about one metering interval.

QTY\*QD\*22348\*TD shows usage of 22348 Therms  
QTY\*QD\*\*TD\*NV shows 0 usage

#### Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity	
			KA Estimated	
			QD Quantity Delivered	
			Quantity is estimated	
			Quantity is actual	
	QTY02	380	Quantity	O R 1/15
			Numeric value of quantity	
			This is the quantity measured in therms.	
M	QTY03	C001	Composite Unit of Measure	M
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
			Note this is a composite data element, populate C00101	
M	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	
			TD Therms	
	QTY04	61	Free-Form Message	O AN 1/30
			Free-form information	
			NV Usage is 0	

# Segment: MEA Measurements - Billing Demand

**Position:** 160

**Loop:** QTY Mandatory

**Level:** Detail

**Usage:** Mandatory

**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:** MEA\*AF\*\*100\*TD

## Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MEA01	737	<b>Measurement Reference ID Code</b>	M ID 2/2
			Code identifying the broad category to which a measurement applies	
			AF Actual Total	
			Used for demand only	
M	MEA03	739	<b>Measurement Value</b>	M R 1/20
			The value of the measurement	
			Billing Demand	
M	MEA04	C001	<b>Composite Unit of Measure</b>	M
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
M	C00101	355	<b>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	
			TD Therms	



# Segment: MEA Measurements - Therm Conversion Factor

**Position:** 160

**Loop:** QTY Mandatory

**Level:** Detail

**Usage:** Mandatory

**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:** MEA\*CF\*\*14

## Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MEA01	737	Measurement Reference ID Code	M ID 2/2
			Code identifying the broad category to which a measurement applies	
			CF Conversion Factor	
M	MEA03	739	Measurement Value	M R 1/20
			The value of the measurement	
			Used for the Therm Conversion Factor value	

# Segment: MEA Measurements - TCQ

**Position:** 160

**Loop:** QTY Mandatory

**Level:** Detail

**Usage:** Mandatory

**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:** MEA\*DT\*MX\*12

## Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MEA01	737	<b>Measurement Reference ID Code</b>	M ID 2/2
			Code identifying the broad category to which a measurement applies	
			DT Dimensional Tolerance	
M	MEA02	738	<b>Measurement Qualifier</b>	M ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			EX Eccentricity	
			This code is used to show the customer is exempt from TCQ.	
			MX Maximum	
M	MEA03	739	<b>Measurement Value</b>	M R 1/20
			The value of the measurement	
			TCQ	

**Segment:** **DTM** **Service Period Start & End**  
**Position:** 210  
**Loop:** QTY Mandatory  
**Level:** Detail  
**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\*150\*19990901  
DTM\*151\*19990930

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	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
			151 Service Period End	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

**Segment:** **SE** **Transaction Set Trailer**  
**Position:** 030  
**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\*28\*000000001

#### Data Element Summary

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

# **Massachusetts Gas Implementation Guideline**

For

## **Electronic Data Interchange**

TRANSACTION SET

# **867**

## **Monthly Usage**

Ver/Rel 004010

# 867 Product Transfer and Resale Report

Functional Group ID=**PT**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Transfer and Resale Report Transaction Set (867) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to: (1) report information about product that has been transferred from one location to another; (2) report sales of product from one or more locations to an end customer; or (3) report sales of a product from one or more locations to an end customer, and demand beyond actual sales (lost orders). Report may be issued by either buyer or seller.

## Heading:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BPT	Beginning Segment for Product Transfer and Resale	M	1		
LOOP ID - N1						5	
M	080	N1	LDC	M	1		
LOOP ID - N1						5	
M	080	N1	Supplier	M	1		
LOOP ID - N1						5	
M	080	N1	Customer Information on Billing Option	M	1		
M	120	REF	LDC Account Number for Customer	M	12		
M	120	REF	Supplier Account Number for Customer	M	12		
	120	REF	Old LDC Account Number for Customer	O	12		
M	120	REF	Billing Option	M	12		
M	120	REF	Service Type	M	12		

## Detail:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
LOOP ID - PTD						>1	
M	010	PTD	Billing Usage - Metered Services Detail	M	1		
M	020	DTM	Current Meter Read Start & End Date + Exchange Date	M	10		
M	020	DTM	Next Scheduled Read Date	M	10		
M	030	REF	Service Indicator	M	20		
M	030	REF	LDC Rate Code	M	20		
Must Use	030	REF	Number of Dials	O	20		
LOOP ID - QTY						>1	
M	110	QTY	Quantity	M	1		
M	160	MEA	Measurements - Billing Demand	M	40		
M	160	MEA	Measurements - Therm Conversion Factor	M	40		
	160	MEA	Measurements - Meter Multiplier	O	40		
	160	MEA	Measurements - Meter Readings	O	40		
LOOP ID - PTD						>1	
M	010	PTD	Billing Usage - Unmetered Services Detail	M	1		
M	020	DTM	Current Meter Read Start & End Date	M	10		

	020	DTM	Next Scheduled Read Date	O	10
M	030	REF	LDC Rate Code	M	20
			LOOP ID - QTY		
M	110	QTY	Quantity	M	1
M	160	MEA	Measurements - Therm Conversion Factor	M	40

## Summary:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
M	030	SE	Transaction Set Trailer	M	1		

**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\*867\*000000001

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			867 Product Transfer and Resale Report	
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:** **BPT** **Beginning Segment for Product Transfer and Resale**  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of the Product Transfer and Resale Report Transaction Set and transmit identifying data  
**Syntax Notes:** 1 If either BPT05 or BPT06 is present, then the other is required.  
**Semantic Notes:** 1 BPT02 identifies the transfer/resale number.  
2 BPT03 identifies the transfer/resale date.  
3 BPT08 identifies the transfer/resale time.  
4 BPT09 is used when it is necessary to reference a Previous Report Number.

**Comments:**

**Notes:**

BPT\*00\*199902010001\*19990131\*DD  
BPT\*00\*199902010001\*19990131\*DD\*\*\*F  
BPT\*01\*199902020001\*19990131\*DD\*\*\*\*\*1999020100001  
If BPT01 = '01' (Cancellation), then an original 867 must be sent as soon as corrected data is available, if there is any replacement/corrected data.

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BPT01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 00 Original Conveys original readings for the account being reported 01 Cancellation Indicates that the readings previously reported for the account are to be cancelled.	M ID 2/2
M	BPT02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time. This code will be used as a cross reference to the 810 billing document.	M AN 1/30
M	BPT03	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the application system.	M DT 8/8
M	BPT04	755	<b>Report Type Code</b> Code indicating the title or contents of a document, report or supporting item DD Distributor Inventory Report Usage	M ID 2/2
	BPT07	306	<b>Action Code</b> Code indicating type of action F Final Code to indicate this is the final usage data being sent for this customer. Either the customer account is final with the LDC or the customer switched to a new ESP.	O ID 1/2
	BPT09	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When BPT01 = 01 (cancel), this element is required if it is available in the sender's system and should contain the transaction identification number from BPT02 of the transaction that is being cancelled.	O AN 1/30

**Segment:** **N1** LDC  
**Position:** 080  
**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			
Des.	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		
		8S Consumer Service Provider (CSP)		
		LDC		
M	N102	93 Name	M AN 1/60	
		Free-form name		
		LDC 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		
		LDC DUNS 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		
		41 Submitter		

**Segment:** **N1 Supplier**  
**Position:** 080  
**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			
Des.	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		
		Supplier 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		
		Supplier DUNS number with or without +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:** **N1** **Customer Information on Billing Option**  
**Position:** 080  
**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\*8R

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		8R Consumer Service Provider (CSP) Customer	

**Segment:** **REF** LDC Account Number for Customer  
**Position:** 120  
**Loop:** N1 Mandatory  
**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\*1239485790

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 12 Billing Account LDC Company -assigned account number for the end use customer.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> 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:** 120  
**Loop:** N1 Mandatory  
**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\*1394959

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Supplier assigned account number for the end use customer.	
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	
			Account Number	

<b>Segment:</b>	<b>REF</b> Old LDC Account Number for Customer
<b>Position:</b>	120
<b>Loop:</b>	N1 Mandatory
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	12
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 REF04 contains data relating to the value cited in REF02.</li> </ol>
<b>Comments:</b>	
<b>Notes:</b>	<p>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.</p> <p>REF*45*1234567</p>

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			LDC's previous account number for the customer.	
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 previous account number for the customer.	

**Segment:** **REF** **Billing Option**  
**Position:** 120  
**Loop:** N1 Mandatory  
**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\*BLT\*DUAL  
REF\*BLT\*LDC

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	
			BLT	Billing Type
				Identifies whether the bill is consolidated by the LDC or ESP, or whether each party will render their own bill. See REF02 for valid values.
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	
			DUAL	Each party bills the customer for their portion - also known as Passthrough
			LDC	The LDC bills the customer for the distribution and supplier charges - also known as Complete Billing



**Segment:** **REF** **Service Type**  
**Position:** 120  
**Loop:** N1 Mandatory  
**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\*QY\*GAS

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			QY	Service Performed Code
				Commodity
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	
			GAS	Gas Service

**Segment:** **PTD Billing Usage - Metered Services Detail**

**Position:** 010

**Loop:** PTD Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

**Syntax Notes:** 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

Meter Services Detail

The PTD loop is required if there are metered services on the account. One PTD loop is required for each meter or for each unit of measure on the account.

PTD\*PM\*\*\*MG\*1234568

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PTD01	521	<b>Product Transfer Type Code</b> Code identifying the type of product transfer PM Physical Meter Information Meter Services Detail	M ID 2/2
M	PTD04	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification MG Meter Number	M ID 2/3
M	PTD05	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Number	M AN 1/30

**Segment:** **DTM** **Current Meter Read Start & End Date + Exchange Date**  
**Position:** 020  
**Loop:** PTD Mandatory  
**Level:** Detail  
**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:**

Only one of DTM\*150 or DTM\*151 is required.  
DTM\*150\*19990101  
DTM\*151\*19990131  
DTM\*150\*19990101 - Start of Meter Read  
DTM\*514\*19990115 - Exchange Meter Read Date  
  
DTM\*514\*19990115 - Exchange Meter Read Date  
DTM\*151\*19990131 - End of Meter Read

#### 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	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	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

**Segment:** **DTM** **Next Scheduled Read Date**  
**Position:** 020  
**Loop:** PTD Mandatory  
**Level:** Detail  
**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\*634\*19990617

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	M ID 3/3
			Code specifying type of date or time, or both date and time	
			634	Next Review Date
			Next meter read date	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

**Segment:** **REF** **Service Indicator**  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 20  
**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\*17\*D

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 17 Client Reporting Category Used as an identifier for the type of Distribution Service to be provided to the Customer in conjunction with Supplier Services.	M ID 2/3
M	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier D Daily Metered Distribution Service N Non Daily Metered Distribution Service	M AN 1/30

**Segment:** **REF** LDC Rate Code  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 20  
**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\*RS1

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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	

<b>Segment:</b>	<b>REF</b> <b>Number of Dials</b>
<b>Position:</b>	030
<b>Loop:</b>	PTD Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional (Must Use)
<b>Max Use:</b>	20
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 REF04 contains data relating to the value cited in REF02.</li> </ol>
<b>Comments:</b>	
<b>Notes:</b>	Required for meters with dials REF*IX*6

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			IX Item Number	
			Number of dials on the meter.	
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	
			Number of Dials	

**Segment:** QTY Quantity  
**Position:** 110  
**Loop:** QTY Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify quantity information  
**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.  
2 Only one of QTY02 or QTY04 may be present.  
**Semantic Notes:** 1 QTY04 is used when the quantity is non-numeric.  
**Comments:**  
**Notes:** QTY\*QD\*22348\*TD shows usage of 22348 Therms  
QTY\*QD\*\*TD\*NV shows 0 usage

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	QTY01	673	<b>Quantity Qualifier</b> Code specifying the type of quantity KA Estimated Quantity is estimated QD Quantity Delivered Quantity is actual	M ID 2/2
M	QTY02	380	<b>Quantity</b> Numeric value of quantity This is the total billing units in therms.	M R 1/15
M	QTY03	C001	<b>Composite Unit of Measure</b> To identify a composite unit of measure (See Figures Appendix for examples of use) Note this is a composite data element, populate C00101	M
M	C00101	355	<b>Unit or Basis for Measurement Code</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
	QTY04	61	<b>Free-Form Message</b> Free-form information No measurable usage to report. NV No Value	O AN 1/30



# Segment: MEA Measurements - Billing Demand

**Position:** 160

**Loop:** QTY Mandatory

**Level:** Detail

**Usage:** Mandatory

**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:** MEA\*AF\*\*100\*TD

## Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MEA01	737	Measurement Reference ID Code	M ID 2/2
			Code identifying the broad category to which a measurement applies	
			AF Actual Total	
			Used for demand only	
M	MEA03	739	Measurement Value	M R 1/20
			The value of the measurement	
			Billing Demand	
M	MEA04	C001	Composite Unit of Measure	M
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
M	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	
			TD Therms	

**Segment:** **MEA** **Measurements - Therm Conversion Factor**

**Position:** 160

**Loop:** QTY Mandatory

**Level:** Detail

**Usage:** Mandatory

**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:** MEA\*CF\*\*14

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MEA01	737	Measurement Reference ID Code	M ID 2/2
			Code identifying the broad category to which a measurement applies	
			CF Conversion Factor	
M	MEA03	739	Measurement Value	M R 1/20
			The value of the measurement	
			Used for the Therm Conversion Factor value	

# Segment: MEA Measurements - Meter Multiplier

**Position:** 160

**Loop:** QTY Mandatory

**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:** Used for a Meter Multiplier or a Constant

MEA\*\*MU\*10

## Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MEA02	738	Measurement Qualifier	O ID 1/3

Code identifying a specific product or process characteristic to which a measurement applies

MU Multiplier

M	MEA03	739	Measurement Value	O R 1/20
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The value of the measurement

Represents the meter constant when MEA02 equals "MU". When no multiplier is present, use a value of 1.

# Segment: MEA Measurements - Meter Readings

**Position:** 160

**Loop:** QTY Mandatory

**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:** Used to supply meter readings

MEA\*\*\*\*HH\*12345\*12445\*57

## Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
MEA04	C001	<b>Composite Unit of Measure</b>	<b>X</b>
		To identify a composite unit of measure (See Figures Appendix for examples of use)	
C00101	355	<b>Unit or Basis for Measurement Code</b>	<b>O ID 2/2</b>
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		HH Hundred Cubic Feet	
MEA05	740	<b>Range Minimum</b>	<b>X R 1/20</b>
		The value specifying the minimum of the measurement range	
		Beginning Reading	
MEA06	741	<b>Range Maximum</b>	<b>O R 1/20</b>
		The value specifying the maximum of the measurement range	
		Ending reading	
MEA07	935	<b>Measurement Significance Code</b>	<b>O ID 2/2</b>
		Code used to benchmark, qualify or further define a measurement value	
		NOTE: Other codes (as identified by UIG) can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements.	
	51	Total	
		Readings Cross Summer and Winter	
	57	Boarded or Blocked Up	
		Summer	
	58	Planned	
		Winter	

**Segment:** **PTD Billing Usage - Unmetered Services Detail**

**Position:** 010

**Loop:** PTD Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data

**Syntax Notes:** 1 If either PTD02 or PTD03 is present, then the other is required.

2 If either PTD04 or PTD05 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

Unmetered Services Detail

The PTD loop is required if there are unmetered services on the account. The only unmetered service is lights.

PTD\*BD

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>		<u>Attributes</u>	
			<b>Product Transfer Type Code</b>		<b>M ID 2/2</b>	
M	PTD01	521	Code identifying the type of product transfer			
			BD		Issue - Other Department	
					Unmetered Services Detail	

**Segment:** **DTM** **Current Meter Read Start & End Date**  
**Position:** 020  
**Loop:** PTD Mandatory  
**Level:** Detail  
**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\*150\*19990101  
DTM\*151\*19990131

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	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
			151 Service Period End	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

**Segment:** **DTM** **Next Scheduled Read Date**  
**Position:** 020  
**Loop:** PTD Mandatory  
**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:** DTM\*634\*19990617

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	M ID 3/3
			Code specifying type of date or time, or both date and time	
			634	Next Review Date
			Next meter read date	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

**Segment:** **REF** LDC Rate Code  
**Position:** 030  
**Loop:** PTD Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 20  
**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\*A20

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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:** QTY Quantity  
**Position:** 110  
**Loop:** QTY Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify quantity information  
**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.  
2 Only one of QTY02 or QTY04 may be present.  
**Semantic Notes:** 1 QTY04 is used when the quantity is non-numeric.  
**Comments:**  
**Notes:** Required if sending the Unmetered Services Detail loop  
QTY\*KA\*22348\*TD shows usage of 22348  
QTY\*KA\*\*TD\*NV shows 0 usage

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	QTY01	673	Quantity Qualifier	M ID 2/2
			Code specifying the type of quantity	
			KA Estimated	
			Quantity is estimated	
M	QTY02	380	Quantity	M R 1/15
			Numeric value of quantity	
			This represents the consumption quantity per in therms.	
M	QTY03	C001	Composite Unit of Measure	M
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
			Note this is a composite data element, populate C00101	
M	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	
			TD Therms	
	QTY04	61	Free-Form Message	X AN 1/30
			Free-form information	
			No measurable usage to report.	
			NV No Value	

# Segment: MEA Measurements - Therm Conversion Factor

**Position:** 160

**Loop:** QTY Mandatory

**Level:** Detail

**Usage:** Mandatory

**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:** MEA\*CF\*\*14\*\*\*\*51

## Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MEA01	737	Measurement Reference ID Code	M ID 2/2
			Code identifying the broad category to which a measurement applies	
			CF Conversion Factor	
M	MEA03	739	Measurement Value	M R 1/20
			The value of the measurement	
			Used for the Therm Conversion Factor value	
M	MEA07	935	Measurement Significance Code	M ID 2/2
			Code used to benchmark, qualify or further define a measurement value	
			NOTE: Other codes (as identified by UIG) can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements.	
		51	Total	
			Crosses Winter and Summer	
		57	Boarded or Blocked Up	
			Summer	
		58	Planned	
			Winter	

**Segment:** **SE** **Transaction Set Trailer**  
**Position:** 030  
**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\*28\*000000001

**Data Element Summary**

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

Division 1-20

Request:

Re: page 9, lines 14-15, of witness Bauer's Direct Testimony, please:

- a. Provide the amount billed for the current fiscal year to date and for each of the last three fiscal years for switching services.
- b. Document the costs to the Company to administer:
  - i. Transfers of customers from sales service to transportation service
  - ii. Transfers of customers from transportation service to sales service
  - iii. Transfers of transportation service customers between gas marketers

Response:

- a. There have been no switching fees for Rhode Island Gas Transportation accounts for the last three years.
- b. (i) through (iii)

The current costs to manually process change requests equates to approximately one-third (1/3) Full Time Equivalent person. This estimate does not account for future changes resulting from the expansion of the program to include the small commercial rate class.

Prepared by or under the supervision of: Michael Bauer

Division 1-21

Request:

Re: page 9, lines 15-17, of witness Bauer's Direct Testimony, please:

- a. Quantify in dollar terms the savings from elimination of internal labor needed to manage the changes process that is expected with implementation of EDI.
- b. Provide the data, studies, documents, and analyses upon which the Company relies to support the assertion that the change fee prevents customers from shopping for the best deal for their gas supply arrangements.
- c. To the extent savings result from the implementation of EDI and/or the elimination of the \$50 fee, how and when would those savings be reflected in rates?
- d. Does the Company agree that, except for a comparatively limited number large or extra large C&I customers for whom the \$50 fee would represent a small portion of their annual costs for gas services, most transportation service customers tend to sign gas supply contracts for periods of one-year or longer.

Response:

- a. The estimated labor savings based on one third (1/3) FTE saving would be approximately \$33,000 annually.
- b. While no studies have been conducted, the annual costs savings to small and medium commercial customers are not large. The switching fee acts as a barrier to the small customer's ability to shop and achieve savings. In addition, EDI is a far more efficient method of switching customers and the cost per switch is significantly less than the \$50 charge.
- c. Based on previous history, savings would be negligible if at all. For example, in the past year of 27 customer switches that occurred, only two customers have switched during that time to multiple Suppliers.
- d. The Company has no basis to agree or disagree with the statement since the contract is between the customer and the Marketer.

Division 1-22

Request:

Re: page 10, lines 1, of witness Bauer's Direct Testimony, please indicate whether representatives of the Division and the Commission would be invited to participate in the planned meetings with Marketers, and if not, please explain the Company's rationale for excluding the Division and the Commission from such discussions.

Response:

Yes. The Company will extend an invitation to the Division staff and the Commission Staff of any future collaborative meetings with the Marketers and would welcome any input from these parties into the collaborative process.

Prepared by or under the supervision of: Michael Bauer

Division 1-23

Request:

Re: page 10, lines 6-10, of witness Bauer's Direct Testimony, please:

- a. Explain why the elimination of grandfathered paths is necessary;
- b. Identify the compensation, if any, the Company proposes to pay to Marketers who are economically disadvantaged by the elimination of grandfathered paths; and
- c. Demonstrate through examples how this change will allow Marketers "to better predict what capacity they will end up with."

Response:

- a. Eliminating grandfathering and prorating the available capacity across all participating marketers provides for a more level playing field for all participants.
- b. No compensation has been anticipated or was requested at the collaborative meetings.
- c. Please see Attachment DIV 1-23.

Prepared by or under the supervision of: Michael Bauer

Division 1-24

Request:

Re: page 10, lines 11-14, of witness Bauer's Direct Testimony, please provide a detailed explanation of what the Company believes would constitute "a failure to pay for supply needed by its customers" and what opportunities the Company would provide a Marketer to remedy such a situation before the Marketer would be disqualified.

Response:

This testimony refers to the Marketer's monthly charges for storage, peaking and imbalance. If the Marketer became delinquent in their payments, they would be notified of possible termination if it was not rectified within a ten day cure period.

Prepared by or under the supervision of: Michael Bauer



Division 1-25

Request:

Re: page 11, lines 3-9, of witness Bauer's Direct Testimony, please provide a comparison of the storage service terms and conditions in each of the jurisdictions in which National Grid offers such services which highlights commonalities and differences among those jurisdictions.

Response:

In New York, in both the KEDNY and KEDLI service territories storage is sold to the Marketers as a bundled city gate sale, priced at the average cost of gas in storage plus applicable variable, fixed and demand costs plus carrying charges. Niagara Mohawk currently requires Marketers to inject into physical storage. Massachusetts service territories offer a hybrid approach with a combination of bundled city gate sales and release of physical storage.

Prepared by or under the supervision of: Michael Bauer

Division 1-26

Request:

Re: page 11, lines 3-9, of witness Bauer's Direct Testimony, please provide the information, data, studies and rationales upon which the Company would rely to conclude that the storage service offered in RI is:

- a. More expensive for marketers than the storage services in the other jurisdictions in which National Grid provides gas transportation services;
- b. More administratively burdensome for the Company than the storage services in the other jurisdictions in which National Grid provides gas transportation services, and if so, provide quantification of the added costs incurred in RI; and
- c. Inferior to the storage services in the other jurisdictions in which National Grid provides gas transportation services in terms of protection of firm gas sales service customer's interests.

Response:

- a. There was no claim in the cited testimony that the storage service offered in Rhode Island is more expensive than that in other jurisdictions.
- b. Please see the Company's response to DIV 1-4 (c) and (d).
- c. There was no claim in the cited testimony that the storage service offered in Rhode Island is inferior to the storage service in other jurisdictions.

Prepared by or under the supervision of: Michael Bauer

Division 1-27

Request:

Re: page 11, line 12-15, of witness Bauer's Direct Testimony, please:

- a. Quantify the referenced reductions in administrative costs:
  - i. For the Company
  - ii. For Marketers
- b. Explain in detail the meaning of the phrase "less prone to compliance issues;" and
- c. Explain why compliance is not something that should be encouraged from the perspective of customers who either do not have transportation service options or who choose to use the Company's gas sales services.
- d. Provide the documents, data, studies and analyses upon which the Company relies to support the assertion that the program it's proposes in this proceeding will "ultimately increase competition" in RI.

Response:

- a.
  - i. Under the proposed filing, the Company will not incur the labor cost of processing enrollments, drops, usage information and historical information. The Company will also not need to manually track Marketers injections and withdrawals from storage which could no longer be managed in the antiquated LCDM system. See the Company's Response to DIV 1-4 (d).
  - ii. Under the proposed filing, Marketers would no longer have to manually fax National Grid requests for switches, drops, usage information and historical information. Marketers would also no longer be burdened with over delivering gas during the summer for winter use and the tracking of that gas
- b. See the Company's Response to DIV 1-4 (d). While the Company takes very seriously it compliance obligations, the introduction of manual workarounds into a process that can be unified and simplified, increases the opportunity for possible non-compliance with specific tariff provisions.
- c. The Company takes its compliance option very seriously and agrees that it should be required of all customers. Eliminating complex processes and developing

Division 1-27 (continued)

simplified and unified processes decreases the likelihood that the Company, a customer or Marketer may inadvertently be in non-compliance with a specific tariff provision.

- d. No competitive studies were conducted; however, the very fact that during the collaborative discussions with the Rhode Island Marketers they requested that the tariff be simplified and are willing to increase their own marketing efforts to serve an additional rate class is strong evidence of increasing competition in the Rhode Island marketplace.

Prepared by or under the supervision of: Michael Bauer

Division 1-28

Request:

Re: page 12, lines 11-18, of witness Bauer's Direct Testimony, given that the Company's proposals in this proceeding were not filed until August 1, 2011 is it reasonable to assume that Marketers have already begun nominating storage for withdrawal in the coming winter. If not, please explain why.

Response:

Marketers were advised not to deliver into storage pending a decision by the Rhode Island Commission on this filing. If a Commission decision is delayed or the proposed tariff is significantly modified or not approved, the Company would sell the Marketers the storage they require.

Prepared by or under the supervision of: Michael Bauer

Division 1-29

Request:

Please identify each of the changes in Marketer terms and conditions and other changes proposed by the Company in this proceeding that would apply directly to or otherwise affect the Company's Non-Firm gas transportation service customers in RI.

Response:

The only change to the Company's non-firm gas transportation program is the threshold for participation. In addition, FT-1 transportation service is no longer available to new customers classified as medium.

Prepared by or under the supervision of: Michael Bauer

The Narragansett Electric Company  
d/b/a National Grid  
Docket No. 4270  
Tariff Advice Filing Regarding  
Changes in Terms and Conditions for Gas Marketers  
Responses to Division Data Requests (Set 1)  
Issued on September 2, 2011

Division 1-30

Request:

Please provide a comparison of the percentage of non-residential customers in Rhode Island that use transportation service with comparable percentages for customers in National Grid's service territories in other jurisdictions in which National Grid offers gas transportation services.

Response:

See chart below.

As of May 2011

<b>Firm Gas Migration (annual)</b>						
<b>Company</b>	<b>Firm Transport Customers</b>	<b>Total Firm Customers</b>	<b>Firm Transport % Customers</b>	<b>Firm Transportation Load (Annual Dth)</b>	<b>Total Annual Firm Throughput</b>	<b>Firm Transport % Load</b>
<b>Niagara</b>						
<b>Mohawk</b>	139,219	589,360	23.62%	22,235,820	74,497,437	29.85%
<b>KEDNY</b>	217,434	1,197,853	18.15%	48,272,449	130,029,422	37.12%
<b>KEDLI</b>	65,373	488,852	13.37%	31,447,077	85,087,448	36.96%
<b>KEDNE (Mass)</b>	11,462	838,476	1.37%	30,561,023	184,027,850	16.61%
<b>KEDNE (NH)</b>	1,525	85,882	1.78%	7,092,894	21,607,388	32.83%
<b>Rhode Island</b>	1,805	248,809	0.73%	10,490,233	35,827,420	29.28%
<b>TOTAL</b>	<b>436,818</b>	<b>3,449,232</b>	<b>12.66%</b>	<b>150,099,495</b>	<b>531,076,966</b>	<b>28.26%</b>

**Non-Firm Gas Migration (annual)**

Prepared by or under the supervision of: Michael Bauer