

**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. 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		
						5	
M	080	N1	LDC	M	1		
						5	
M	080	N1	Supplier	M	1		
						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. 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>
						>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		
						>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		
						>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		>1	
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>Data</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>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BPT01	353	Transaction Set Purpose Code 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	Reference Identification 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	Date 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	Report Type Code Code indicating the title or contents of a document, report or supporting item DD Distributor Inventory Report Usage	M ID 2/2
	BPT07	306	Action Code 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	Reference Identification 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 Element	Name	Attributes
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) LDC	M ID 2/3
M	N102	93 Name Free-form name LDC Name	M AN 1/60
M	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	M ID 1/2
M	N104	67 Identification Code Code identifying a party or other code LDC DUNS number with or without the +4.	M AN 2/80
M	N106	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 41 Submitter	M ID 2/3

Segment: N1 Supplier
Position: 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 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
M	<u>Des.</u> N101	<u>Element</u> 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. 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	
			12 Billing Account	
			LDC Company -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	

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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 11 Account Number Supplier assigned account number for the end use customer.	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Account Number	M AN 1/30

Segment: **REF** Old LDC Account Number for Customer
Position: 120
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: This segment is used at the discretion of each LDC. Please check with your LDC to see if they are using this segment or not.
REF*45*1234567

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 45 Old Account Number LDC's previous account number for the customer.	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier LDC's previous account number for the customer.	M AN 1/30

Segment: **REF** 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

Ref.	Des.	Data Element	Name	Attributes
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>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	PTD01	521	Product Transfer Type Code Code identifying the type of product transfer PM Physical Meter Information Meter Services Detail	M ID 2/2
M	PTD04	128	Reference Identification Qualifier Code qualifying the Reference Identification MG Meter Number	M ID 2/3
M	PTD05	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: **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. Des.</u>	<u>Data 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>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</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

Ref.	Data Element	Name	Attributes
M	REF01 128	Reference Identification Qualifier 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	Reference Identification 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>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** Number of Dials
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Optional (Must Use)
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: Required for meters with dials
REF*IX*6

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification IX Item Number Number of dials on the meter.	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 Number of Dials	M AN 1/30

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

Ref.	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	
M	QTY02	380 Quantity	M R 1/15
		Numeric value of quantity	
		This is the total billing units 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	
		No measurable usage to report.	
		NV No Value	

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

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 Code identifying the broad category to which a measurement applies CF Conversion Factor	M ID 2/2
M	MEA03	739	Measurement Value The value of the measurement Used for the Therm Conversion Factor value	M R 1/20

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 Code identifying a specific product or process characteristic to which a measurement applies MU Multiplier	O ID 1/3
M	MEA03	739	Measurement Value The value of the measurement Represents the meter constant when MEA02 equals "MU". When no multiplier is present, use a value of 1.	O R 1/20

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
<u>Des.</u>	<u>Element</u>		
MEA04	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X
C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken HH Hundred Cubic Feet	O ID 2/2
MEA05	740	Range Minimum The value specifying the minimum of the measurement range Beginning Reading	X R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range Ending reading	O R 1/20
MEA07	935	Measurement Significance Code 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.	O ID 2/2
	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>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Product Transfer Type Code</u>	<u>M ID 2/2</u>
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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 150 Service Period Start 151 Service Period End	M ID 3/3
M	DTM02	373	Date Date expressed as CCYYMMDD	M DT 8/8

Segment: **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>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 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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	QTY01	673	Quantity Qualifier Code specifying the type of quantity KA Estimated Quantity is estimated	M ID 2/2
M	QTY02	380	Quantity Numeric value of quantity This represents the consumption quantity per in therms.	M R 1/15
M	QTY03	C001	Composite Unit of Measure 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	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken TD Therms	M ID 2/2
	QTY04	61	Free-Form Message Free-form information No measurable usage to report. NV No Value	X AN 1/30

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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies CF Conversion Factor	M ID 2/2
M	MEA03	739	Measurement Value The value of the measurement Used for the Therm Conversion Factor value	M R 1/20
M	MEA07	935	Measurement Significance Code 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.	M ID 2/2
		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*00000001

Data Element Summary

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