Massachusetts Electronic Business Transactions Standard

For

Electronic Data Interchange

TRANSACTION SET

810

Usage and Billing Invoice

Ver/Rel 004010

Outbound to Energy Supplier

Summary of Changes

MARCH 29, 1999	Initial Release – Version 99.1
JULY 14, 2004	• Added Billed Determinants to the MEA Segments in the MEA*01 element field. • Added the DUNS + 4 option to the N1*SJ segment.
DECEMBER 3, 2013	• Added possible values for REFBE Business Activity Code • Removed notes for use of NTE and PID segments.
November 4, 2015 Version 2.0	• Updates in support of POR

January 30, 2024 Version 2.1	• Incorporated CC 020
	• Added notes on SAC04 that Late Payment Charges (LPC001), Supplier Arrears (PRB001) not included when calculating POR
	• Incorporated CC 025
	  o Added REF*KY for net meter indicator for Eversource
	• Incorporated CC 029
	  o Added back the REF*QY segment
	• Incorporated CC 030
	  o remove the K2 code, which represents kVAR and add the K4 code, which is the proper representation for kVA

Purpose

This Massachusetts EBT Implementation Standard contains the format and establishes the data contents of the Usage and Billing Transaction Set (810) as prescribed by the EBT for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set will be used to provide a detailed statement of usage and billing charges due for utility services for a customer account.

Notes

This Implementation Guideline was designed to address the business processes that occur between a local distribution utility (LDC) and a third-party energy service provider (ESP) in a deregulated, alternative energy supply environment.

The principal parties involved in this Transaction Set 810 implementation are:

- The utility (Code 8S) which provides services to the end use customer on behalf of the ESP
- The ESP (Code SJ) which supplies energy to the end use customer
- The end use customer (Code 8R)

The primary processes addressed by this Transaction Set 810 are:

- Advising the ESP of metered consumption by the customer
- Advising the ESP of amounts billed by the utility on the ESP's behalf

810 Invoice
Best Practices
Global Best Practices

Use of ZZ Qualifier
- The use of data fields to transmit uncoded or textual information should be avoided. This practice is usually associated with the use of the ZZ qualifier as a normal course of doing business.

997 - Functional Acknowledgment
- The purpose of the 997 is to verify receipt of a transmitted document only, not the acceptance of the document. For example, the acceptance of a purchase order (850) is accomplished through the use of the purchase order
acknowledgment transaction (855).

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

Use of Dun & Bradstreet (D-U-N-S) Number
- Dun & Bradstreet assigns a nine-digit identification number to every business entity. This number, known as the D-U-N-S number, should be used to identify the trading partners. A trading partner may append a four-digit suffix to the D-U-N-S number to uniquely identify a specific location within the entity; this number is referred to as a D-U-N-S + 4 number

Banking Transactions
- Guidelines that outline the use of transactions relating to interactions between a sender and the sender's financial institution are available from the Bankers EDI Council and the NACHA EDI Council. Other publications that address the use of financial payment transactions include Technical Report 1 (TR1) and Technical Report 2 (TR2); both of these publications are available from DISA.

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

Document-Specific Best Practices

Use of the IT1 Segment

- An IT1 loop is used to accumulate all consumption and charge detail for a single meter or service. Each meter or service will be detailed in a separate IT1 loop. Massachusetts Electric's account structure allows for only one service per account number. Therefore, the Supplier will receive a separate 810 usage or usage and billing transaction per customer account.

- Each 810 usage or usage and billing transaction can have a maximum of two IT1 Loops. The first IT1 Loop will contain the ACCOUNT level charge/credit information that is not attributed to the specific meter or service and will have the literal 'ACCOUNT' in the IT109 field. The second IT1 Loop will contain the usage information for the account and will have either the literal ' METER' or 'UNMET' in the IT109 field.

(*Note: Each 810 Transaction Set will have a maximum of two IT1 Segments*).

Use of the MEA Segment

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

Definitions for MEA07 Measurement Significance Codes

- The metering characteristics of the utility industry require measurement definitions in addition to those found in Data Element 935, *Measurement Significance Code*. The UIG has submitted data maintenance (DM) requests to have these additional definitions added to DE 935 in a future version of the X12 standards. In order to provide these measurement definitions for version 4010 implementations, the UIG has provided UIG-specific definitions for valid DE 935 codes. To assist application developers, who may wish to include the requested future codes in their application logic, the list of non-standard definitions found in MEA07 includes references to the requested codes.

Use of the Detail IT1/REF Segment, Position 120

- This segment is used only when the IT1 loop is used to present account information. Trading partners using the meter model (where an IT1 conveys meter charges and usage) should provide the account reference information in the Header REF, position 050.

Use of the SLN Segment

- The IT1/SLN segment is used to overcome the limitation on the number of IT1/SAC loops. In some environments, more than 25 separate charges or allowances are associated with one IT1. Use of the SLN segment provides for a maximum of 1,000 individual SAC and TXI iterations. If and when the 810 are revised to permit more than 25 IT1/SAC loops, this 810 Guideline will be revised to remove the SLN segment.

Values in Element SAC01 and SAC05

- Previous editions of this guideline stated that the amount shown in SAC05 will always be positive and that the code used in SAC01 will indicate whether to add or subtract the SAC05 amount to or from the TDS. As a result of a clarification provided by X12F, it has been determined that the above statement is incorrect; future versions of the UIG guidelines will no longer contain the above statement. The code used in SAC01 does not indicate the sign of the amount in SAC05. The amount shown in SAC05 may be either positive or negative; if negative, the minus sign, " – ", must be transmitted.
Trading partners who have implemented the former guidance regarding SAC01 and SAC05 may continue to follow that guidance or may elect to revise their implementation to conform to the current guidance. New implementations should follow the guidance contained herein.

810 Invoice

Functional Group ID=IN

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	ST	Transaction Set Header	M	1	
M	020	BIG	Beginning Segment for Invoice	M	1	
Must Use	050	REF	Reference Identification - Activity Code	O	1	
Must Use	050	REF	Reference Identification - Billing Option	O	1	
	050	REF	Reference Identification - Billing Cycle	O	1	
			LOOP ID - N1			1
Must Use	070	N1	Name - Distribution Company	O	1	
			LOOP ID - N1			1
Must Use	070	N1	Name - Supplier	O	1	
Must Use	140	DTM	Date/Time Reference - Billing Date	O	1	

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
			LOOP ID - IT1			200000
Must Use	010	IT1	Baseline Item Data (Invoice)	O	1	
	040	TXI	Tax Information - Current Sales Tax	O	1	
	059	MEA	Measurements - Total Non TOU	O	1	
	059	MEA	Measurements - Peak kwh	O	1	
	059	MEA	Measurements - Peak kw	O	1	
	059	MEA	Measurements - Peak Kva	O	1	
	059	MEA	Measurements - Offpeak kwh	O	1	
	059	MEA	Measurements - Offpeak kw	O	1	
	059	MEA	Measurements - Offpeak Kva	O	1	
	059	MEA	Measurements - Shoulder kwh	O	1	
	059	MEA	Measurements - Shoulder kw	O	1	
	059	MEA	Measurements - Shoulder Kva	O	1	
	059	MEA	Measurements - Demand Value	O	1	
	059	MEA	Measurements - Number Non-Metered Units	O	1	
Must Use	120	REF	Reference Identification - Disco Account	O	1	
Must Use	120	REF	Reference Identification - Supplier Account	O	1	
	120	REF	Reference Identification - Type of Service	O	1	
	120	REF	Reference Identification - Supplier Rate	O	1	
	120	REF	Reference Identification - Service Identifier	O	1	
	120	REF	Reference Identification - Pricing Structure	O	1	
	120	REF	Reference Identification - Primary Metering	O	1	

			Indicator			
	128	REF	Reference Identification - Special Meter Configuration	O	1	
Must Use	150	DTM	Date/Time Reference - Current Read	O	1	
Must Use	150	DTM	Date/Time Reference - Previous Read	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Non TOU	O	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Current Peak	O	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Current Off-Peak	O	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Current Shoulder	O	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Current Demand	O	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Supplier Arrears	O	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Arrears Interest	O	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Current Customer Charge	O	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	TDS	Total Monetary Value Summary	M	1	
	070	CTT	Transaction Totals	O	1	
M	080	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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**BIG01**	**373**	**Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		
M	**BIG02**	**76**	**Invoice Number**	**M**	**AN 1/22**
			Identifying number assigned by issuer		
			The Utility will send a unique reference identifier.		
>>	**BIG07**	**640**	**Transaction Type Code**	**O**	**ID 2/2**
			Code specifying the type of transaction		
			BD Statement of Balance Due		
			PR Product (or Service)		

Segment: **REF** **Reference Identification - Activity Code**
Position: 050
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BE Business Activity	**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 00 Normal On-Cycle Bill 01 Cancellation 02 Manual Bill 03 Final Bill 04 Off-Cycle Bill 05 Balance Only Bill 06 Estimated On-Cycle Bill 07 Estimated Off-Cycle Bill 08 Late Lead / Late Booked	**X AN 1/30**

Segment: **REF** **Reference Identification - Billing Option**
Position: 050
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** 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.	**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 DUAL Each party bills the customer for its portion. (PASSTHROUGH BILLING) LDC LDC bills the customer. (COMPLETE BILLING)	**X AN 1/30**

Segment: **REF** **Reference Identification - Billing Cycle**
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BF Billing Center Identification Billing Cycle. Cycle number when the billing will be rendered.	**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**

Segment: **N1** **Name - Distribution Company**
Position: 070
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Utility	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name	**X**	**AN 1/60**
>>	**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	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code	**X**	**AN 2/80**

Segment: **N1** **Name - Supplier**
Position: 070
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual		**M**	**ID 2/3**
			SJ	Service Provider		
				Identifies name and address information as pertaining to a service provider for which billing is being rendered		
				Energy Service Provider		
	N102	**93**	**Name** Free-form name		**X**	**AN 1/60**
>>	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)		**X**	**ID 1/2**
			1	D-U-N-S Number, Dun & Bradstreet		
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code		**X**	**AN 2/80**

Segment: **DTM** **Date/Time Reference - Billing Date**
Position: 140
Loop:
Level: Heading
Usage: Optional (Must Use)
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 434 Statement Date on which billing document was created	**M ID 3/3**
>>	**DTM05**	**1250**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	**X ID 2/3**
>>	**DTM06**	**1251**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times	**X AN 1/35**

Segment: **IT1** **Baseline Item Data (Invoice)**
Position: 010
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: The typical usage of the IT1 entails including all usage and charges attributed to one meter; in this case, the IT1 loop is qualified with "METER" in the IT108/IT109 pair. In the case where some charges are not attributed to a specific meter, for example, basic customer charge or late payment charge the IT1 loop is qualified with "ACCOUNT" in the IT108/IT109 pair. An 810 invoice may contain both "METER" and "ACCOUNT" IT1 loops.
A Meter IT1 loop can be mapped differently, depending on whether Time-of-Use (TOU) or straight meter measurement is employed. With a TOU measurement, multiple MEA segments will convey the usage, with the MEA07 in each MEA providing the TOU classification. The IT1 loop for a non-TOU or straight meter measurement will contain a single MEA segment with no MEA07.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**IT101**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set Line item counter	**O**	**AN 1/20**
>>	**IT106**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	**X**	**ID 2/2**
>>	**IT107**	**234**	**Product/Service ID** Identifying number for a product or service ELECTRIC	**X**	**AN 1/48**
>>	**IT108**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	**X**	**ID 2/2**

			C3 Classification			
>>	**IT109**	**234**	**Product/Service ID**		**X**	**AN 1/48**
			Identifying number for a product or service			
			ACCOUNT Account Model			
			METER Meter Model			
			UNMET Unmetered Services			
D	**IT110**	**235**	**Product/Service ID Qualifier**		**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
			IT110 and IT111 are used only if IT109 = METER			
			MB Measurement Type Code			
D	**IT111**	**234**	**Product/Service ID**		**X**	**AN 1/48**
			Identifying number for a product or service			
			NT Non-Time of Use Measurement			
			TOU Time of Use Measurement			
>>	**IT112**	**235**	**Product/Service ID Qualifier**		**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
			IT112 and IT113 are used to indicate that consumption will be provided but the actual meter readings will not be provided.			
			EQ Equipment Type			
>>	**IT113**	**234**	**Product/Service ID**		**X**	**AN 1/48**
			Identifying number for a product or service			
			NR = No reads will be presented			
			NR No Reads			

Segment: **TXI** **Tax Information - Current Sales Tax**
Position: 040
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**TXI01**	**963**	**Tax Type Code** Code specifying the type of tax Use any valid Data Element 963 codes as mutually agreed between the trading partners. SU Sales and Use Tax Tax on Equipment and Service provided	**M**	**ID 2/2**
>>	**TXI02**	**782**	**Monetary Amount** Monetary amount	**X**	**R 1/18**
>>	**TXI07**	**662**	**Relationship Code** Code indicating the relationship between entities A Add The amount in TXI02 should be added when summing the invoice total.	**O**	**ID 1/1**

Segment: **MEA** **Measurements - Total Non TOU**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	**O ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
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 KH Kilowatt Hour	**M ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 51 Total	**O ID 2/2**

Segment: **MEA** **Measurements - Peak kwh**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	**O ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
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 KH Kilowatt Hour	**M ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 42 On Peak	**O ID 2/2**

Segment: **MEA** **Measurements - Peak kw**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	**O ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
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 K1 Kilowatt Demand Represents potential power load measured at predetermined intervals	**M ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 42 On Peak	**O ID 2/2**

Segment: **MEA** **Measurements - Peak Kva**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	**O ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
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 K4 Kilovolt Amperes Measure of electrical power	**M ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 42 On Peak	**O ID 2/2**

Segment: **MEA** **Measurements - Offpeak kwh**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	**O**	**ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X**	**R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**	
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 KH Kilowatt Hour	**M**	**ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 41 Off Peak	**O**	**ID 2/2**

Segment: **MEA** **Measurements - Offpeak kw**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	**O**	**ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X**	**R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**	
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 K1 Kilowatt Demand Represents potential power load measured at predetermined intervals	**M**	**ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 41 Off Peak	**O**	**ID 2/2**

Segment: **MEA** **Measurements - Offpeak Kva**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	**O**	**ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X**	**R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**	
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 K4 Kilovolt Amperes Measure of electrical power	**M**	**ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 41 Off Peak	**O**	**ID 2/2**

Segment: **MEA** **Measurements - Shoulder kwh**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	**O**	**ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X**	**R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**	
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 KH Kilowatt Hour	**M**	**ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 66 Sales	**O**	**ID 2/2**

Segment: **MEA** **Measurements - Shoulder kw**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	**O ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
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 K1 Kilowatt Demand Represents potential power load measured at predetermined intervals	**M ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 66 Sales	**O ID 2/2**

Segment: **MEA** **Measurements - Shoulder Kva**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	**O**	**ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X**	**R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**	
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 K4 Kilovolt Amperes Measure of electrical power	**M**	**ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 66 Sales	**O**	**ID 2/2**

Segment: **MEA** **Measurements - Demand Value**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
	MEA01	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage	**O ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
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 K1 Kilowatt Demand Represents potential power load measured at predetermined intervals K4 Kilovolt Amperes Measure of electrical power	**M ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 62 Current	**O ID 2/2**

Segment: **MEA** **Measurements - Number Non-Metered Units**
Position: 059
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**MEA01**	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies BC Billed Actual	**O**	**ID 2/2**
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X**	**R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**	
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 UN Unit	**M**	**ID 2/2**

Segment: **REF** **Reference Identification - Disco Account**
Position: 120
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Utility-assigned account number for the end use customer.	**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**

Segment: **REF** **Reference Identification - Supplier Account**
Position: 120
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Energy Service Provider-assigned account number for the end use customer.	**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**

Segment: **REF** **Reference Identification - Type of Service**
Position: 120
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PRT Product Type	**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**

Segment: **REF** **Reference Identification - Supplier Rate**
Position: 120
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification RB Rate code number Identifies an Energy Service Provider rate class	**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**

Segment: **REF** **Reference Identification - Service Identifier**
Position: 120
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
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**

Segment: **REF** **Reference Identification - Pricing Structure**
Position: 120
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PR Price Quote Number Identifies a unit pricing category under a rate code	**M ID 2/3**
>>	**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**

Segment: **REF** **Reference Identification - Primary Metering Indicator**
Position: 120
Loop: IT1 Optional (Must Use)
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification QY Service Performed Code Number indicating the type of service performed to repair a product	**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**

Segment: **REF** **Reference Identification - Special Meter Configuration**
Position: 128
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification KY Site Specific Procedures, Terms, and Conditions A set of procedures, terms, and conditions, applicable to a category of procurement emanating from a specific location, which will be incorporated into all procurement actions in that category by referencing its unique number rather than by incorporating the lengthy details it represents Special Meter Configuration (Net Meter)	**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 NETMETER Net Meter is present on account	**X AN 1/30**

Segment: **DTM** **Date/Time Reference - Current Read**
Position: 150
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 151 Service Period End	**M**	**ID 3/3**
>>	**DTM05**	**1250**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	**X**	**ID 2/3**
>>	**DTM06**	**1251**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times	**X**	**AN 1/35**

Segment: **DTM** **Date/Time Reference - Previous Read**
Position: 150
Loop: IT1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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 segment is required for all services.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start Recommended by UIG	**M**	**ID 3/3**
>>	**DTM05**	**1250**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	**X**	**ID 2/3**
>>	**DTM06**	**1251**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times	**X**	**AN 1/35**

Segment: **SLN** **Subline Item Detail - Non TOU**
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes: The IT1/SLN segment is used to overcome the limitation on the number of IT1/SAC loops.
Each SLN loop will contain only one SAC and TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

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

Segment: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 230
Loop: SLN 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: Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SAC01**	**248**	**Allowance or Charge Indicator**	**M ID 1/1**
			Code which indicates an allowance or charge for the service specified	
			C Charge	
			The amount in SAC05 should be added when summing the invoice total.	
	SAC03	**559**	**Agency Qualifier Code**	**X ID 2/2**
			Code identifying the agency assigning the code values	
			EU Electric Utilities	
			Use this code until the DM for "UT" code is approved.	
>>	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code**	**X AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or	

charge

The Utility Industry Group maintains this code list. See the UIG web site at http://www.uig.org or contact a UIG member for implementation details. The most current listing of codes will be available on the web site.

ENC001 Energy Charges

>>	**SAC05**	**610**	**Amount**	**O**	**N2 1/15**

Monetary amount

The SAC01 will indicate whether to add or subtract from the TDS.

Segment: **SLN** **Subline Item Detail - Current Peak**
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

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

Segment: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 230
Loop: SLN 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: Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SAC01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified C Charge The amount in SAC05 should be added when summing the invoice total.	**M ID 1/1**
	SAC03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values EU Electric Utilities	**X ID 2/2**
>>	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code** Agency maintained code identifying the service, promotion, allowance, or charge	**X AN 1/10**

			ENC037	Peak Charge		
>>	**SAC05**	**610**	**Amount** Monetary amount		**O**	**N2 1/15**

Segment: **SLN** **Subline Item Detail - Current Off-Peak**
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

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

Segment: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 230
Loop: SLN 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: Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SAC01**	**248**	**Allowance or Charge Indicator**	**M ID 1/1**
			Code which indicates an allowance or charge for the service specified	
			C Charge	
			The amount in SAC05 should be added when summing the invoice total.	
	SAC03	**559**	**Agency Qualifier Code**	**X ID 2/2**
			Code identifying the agency assigning the code values	
			EU Electric Utilities	
>>	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code**	**X AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge	

			ENC003	Off Peak Charge		
>>	**SAC05**	**610**	**Amount** Monetary amount		**O**	**N2 1/15**

Segment: **SLN** **Subline Item Detail - Current Shoulder**
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

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

Segment: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 230
Loop: SLN 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: Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SAC01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified C Charge The amount in SAC05 should be added when summing the invoice total.	**M ID 1/1**
	SAC03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values EU Electric Utilities	**X ID 2/2**
>>	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code** Agency maintained code identifying the service, promotion, allowance, or charge	**X AN 1/10**

			ENC038	Shoulder Charge		
>>	**SAC05**	**610**	**Amount** Monetary amount		**O**	**N2 1/15**

Segment: **SLN** **Subline Item Detail - Current Demand**
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

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

Segment: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 230
Loop: SLN 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: Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SAC01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified C Charge The amount in SAC05 should be added when summing the invoice total.	**M ID 1/1**
	SAC03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values EU Electric Utilities	**X ID 2/2**
>>	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code** Agency maintained code identifying the service, promotion, allowance, or charge	**X AN 1/10**

			DMD001	Demand Charge		
>>	**SAC05**	**610**	**Amount** Monetary amount		**O**	**N2 1/15**

Segment: **SLN** **Subline Item Detail - Supplier Arrears**
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

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

Segment: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 230
Loop: SLN 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: Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.
PRB00 not included for POR

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SAC01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified C Charge The amount in SAC05 should be added when summing the invoice total.	**M ID 1/1**
	SAC03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values EU Electric Utilities	**X ID 2/2**
>>	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code** Agency maintained code identifying the service, promotion, allowance, or	**X AN 1/10**

charge
PRB001 Past Due Balance
Not included for POR

>>	**SAC05**	**610**	**Amount** Monetary amount		**O**	**N2 1/15**

Segment: **SLN** **Subline Item Detail - Arrears Interest**
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

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

Segment: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 230
Loop: SLN 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: Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.
LPC001 not included for POR

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SAC01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified C Charge The amount in SAC05 should be added when summing the invoice total.	**M ID 1/1**
	SAC03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values EU Electric Utilities	**X ID 2/2**
>>	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code** Agency maintained code identifying the service, promotion, allowance, or	**X AN 1/10**

			charge			
			LPC001	Late Payment Charge		
				Not included for POR		
>>	**SAC05**	**610**	**Amount**		**O**	**N2 1/15**
			Monetary amount			

Segment: **SLN** **Subline Item Detail - Current Customer Charge**
Position: 200
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

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

Segment: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 230
Loop: SLN 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: Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SAC01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified C Charge The amount in SAC05 should be added when summing the invoice total.	**M ID 1/1**
	SAC03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values EU Electric Utilities	**X ID 2/2**
>>	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code** Agency maintained code identifying the service, promotion, allowance, or charge	**X AN 1/10**

			BAS001	Basic Customer Administrative Charges		
>>	**SAC05**	**610**	**Amount** Monetary amount		**O**	**N2 1/15**

Segment: **TDS** **Total Monetary Value Summary**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To specify the total invoice discounts and amounts
Syntax Notes:
Semantic Notes:
1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2 TDS02 indicates the amount upon which the terms discount amount is calculated.
3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4 TDS04 indicates the total amount of terms discount.
Comments:
1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.
Notes: TDS01 is the total amount due for this invoice and must equal the algebraic sum of the amounts in the TXI02 and SAC05 segments. If this amount is negative, send the minus sign.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**TDS01**	**610**	**Amount** Monetary amount	**M N2 1/15**

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

Data Element Summary

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

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
M	**SE02**	**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**

MASSACHUSETTS Electronic Business Transactions Standard

For

Electronic Data Interchange

TRANSACTION SET

814 Change

Request / Response

Ver/Rel 004010

	Summary of Changes
August 2, 1999	• Initial Release – Version 99.1 •
April 15, 2002	• Added REF*LO Segment for Load Profile Codes • Added REF*TD Segments Reason for Change in the LIN and NM1 loops. • Sequenced the Segments to agree with the UIG Guides • Added Status reason code tables to REF*7G Segment • Added/or changes some data element descriptions for clarification • Removed REF*RB REF02 element table description that didn't pertain to MA •
June 30, 2004	• Added Service Address N3 and N4 segments for MOVE transaction. • Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element. • Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only. • Added Dun's + 4 capability for Suppliers to use on the N1*SJ Segment. • Dropped the requirement for the mandatory 4 character name on the N1*8R segment for Commercial and Industrial Accounts only. • Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.
June 27, 2006	• Added Green-Up program for National Grid's MA and RI Customers. • This included a DTM and an additional REF*PR segments. • Added Budget Billing notification REF segment. REF*NR indicates if a customer is on a budget billing plan or not. It is a Y / N field. • Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added. • A REF*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment. • A REF*TD*KC has been added to the reason for change segment and an AMT segment to carry the ICAP VALUE. (Remember that an ICAP VALUE can be zero as a valid

	value. This is why we needed to add a REF*KC segment to tell folks when the zero value is actually blank or no value.
January 14, 2015	• Separated into own document. • Added REF03 to REF*PRT for Net Meter Indicator
January 20, 2015	• Added REF03 to REF*TD in NM1 loop to allow for description of change in support of Net Metering.
October 26, 2015	• Administrative corrections/updates • Added new segment REF*KY in support of Net Metering.
November 4, 2015 Version 2.0	• Final Release
January 31, 2024 Version 2.1	• Incorporated CC 026 o clarify the requirements for the N101 value for the N1*8R segment • Incorporated CC 032 o add Rejection Response Code DIV (Date Invalid). Example: REF*7G*DIV. • Incorporated CC 033 o to codify using either the BGN02 or BGN06 to send back the requests Reference Identification in the 814 Response • Incorporated CC 034 o add REF*1J segment as optional and sent by Eversource West as the Load Asset Id assigned to the Supplier by ISO New England o add REF02 REF1J Change ISO Asset Identifier value to REF*TD • Incorporated CC 035 o Addition of AMT*FW Segment for supplier fixed charge for Eversource Omni

814 General Request, Response or Confirmation

Functional Group ID=GE

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	ST	Transaction Set Header	M	1	
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Distribution Company	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Supplier	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Customer	O	1	
	060	N3	Address Information	O	2	
	070	N4	Geographic Location	O	1	
			LOOP ID - N1			1
	040	N1	Name - Bill To Identifier	O	1	
	060	N3	Address Information	O	1	
	070	N4	Geographic Location	O	1	
			LOOP ID - N1			1
	040	N1	Name - Old Customer Name	O	1	

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
			LOOP ID - LIN			1
Must Use	010	LIN	Item Identification	O	1	
Must Use	020	ASI	Action or Status Indicator	O	1	
Must Use	030	REF	Reference Identification - Supplier Account Number	O	1	
Must Use	030	REF	Reference Identification - Distribution Account Number	O	1	
	030	REF	Reference Identification - Old Distribution Co. Acct Number	O	1	
	030	REF	Reference Identification - Billing Cycle	O	1	
Must Use	030	REF	Reference Identification - Billing Option	O	1	
	030	REF	Reference Identification - Public Aggregator	O	1	
	030	REF	Reference Identification - Rejection Reason	O	>1	
	030	REF	Reference Identification - Reason For Change	O	>1	
	030	REF	Reference Identification - STD Point Location Code	O	>1	
	030	REF	Reference Identification - Current Budget Billing Status	O	>1	

	038	REF	Reference Identification - No ICAP Tag	O	1	
	035	REF	Reference Identification - Special Meter Configuration	O	1	
	038	REF	Reference Identification - Load Asset Identifier	O	1	
	040	DTM	Date/Time Reference - Effective	O	1	
	060	AMT	Monetary Amount - Sales Tax	O	1	
	060	AMT	Monetary Amount - ICAP Tag	O	1	
	073	AMT	Monetary Amount - Supplier Fixed Charge	O	1	
			LOOP ID - NM1			>1
Must Use	080	NM1	Individual or Organizational Name	O	1	
	130	REF	Reference Identification - Old Service Identifier	O	1	
	130	REF	Reference Identification - Load Profile	O	1	
	130	REF	Reference Identification - Service Identifier	O	1	
	130	REF	Reference Identification - Distribution Company Rate Code	O	1	
	130	REF	Reference Identification - Type of Service	O	1	
	130	REF	Reference Identification - Supplier Pricing Structure	O	1	
	130	REF	Reference Identification - Supplier Rate Code	O	1	
	130	REF	Reference Identification - Reject Reason	O	>1	
	130	REF	Reference Identification - Reason for Change	O	>1	
M	150	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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	**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 Unique number generated by Sender's Translator	**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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BGN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 11 Response Distribution Company to Supplier Change Error Response / Successful Response 13 Request Distribution Company to Supplier Change Enrollment Information Supplier to Distribution Company Change Enrollment Information	**M ID 2/2**
M	**BGN02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Request: Unique Tracking Identification Number assigned by the Senders application interface Response: The BGN02 from the originating BGN02 814 Request Or 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. The identification number must be unique over time. In this case, the BGN06 will be used to convey The BGN02 from the originating BGN02 814 Request.	**M AN 1/30**
M	**BGN03**	**373**	**Date**	**M DT 8/8**

		Date expressed as CCYYMMDD		
		The transaction creation date. This is the date that the transaction was created by the sender's application system.		
BGN06	**127**	**Reference Identification**	**O**	**AN 1/30**
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
		Unique Tracking Identification Number sent with the originating transaction. If not contained in the BGN02		

Segment: **N1** **Name - Distribution Company**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Distribution Company	**M**	**ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Distribution Company Name (Text)	**X**	**AN 1/60**
>>	**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	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Distribution Company D-U-N-S Number	**X**	**AN 2/80**

Segment: **N1** **Name - Supplier**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered Supplier	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Supplier Name (Text)	**X AN 1/60**
>>	**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	**X ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Supplier D-U-N-S Number or D-U-N-S + 4 Number	**X AN 2/80**

Segment: **N1** **Name - Customer**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8R Consumer Service Provider (CSP) Customer Customer	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Distribution Company Customer Name Key Required for Residential customers only. This field will contain the first four characters of the Customers' last name as it appears on the bill.	**X AN 1/60**

Segment: **N3** **Address Information**
Position: 060
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Should be sent if REF02 of REF*TD is N18R
LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 070
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Should be sent if REF02 of REF*TD is N18R
LDC - ESP only

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	**19**	**City Name** Free-form text for city name	**O AN 2/30**
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O ID 3/15**
N404	**26**	**Country Code** Code identifying the country	**O ID 2/3**

Segment: **N1** **Name - 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: Required if REF02 of REF*TD is N1BT
LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** 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 identified in the NM1/REF segment. Only sent if Mailing Address is different than the Customer's Service Address. Changes to Mailing addresses, including when Mailing Address is changed to the Service Address, should be sent in an 814 Change request using the N1*BT segment.	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name NV No Value	**X AN 1/60**

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: Should be sent if REF02 of REF*TD is N1BT
LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information Bill To Address	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information Additional Address Information	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Should be sent if REF02 of REF*TD is N1BT
LDC - ESP only

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	**19**	**City Name** Free-form text for city name Bill To City Name	**O**	**AN 2/30**
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency Bill To State Code	**O**	**ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States) Bill To Postal Code	**O**	**ID 3/15**
N404	**26**	**Country Code** Code identifying the country Bill To Country Code (i.e. USA)	**O**	**ID 2/3**

Segment: **N1** **Name - Old Customer Name**
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: Should be sent if REF02 of REF*TD is N18R
LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual AO Account Of Used to identify the former name or service address for the current end use customer. Used when the customer name or written service address has changed. The new, replacement name or address will be qualified by 8R.	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Former Account Customer Name For Residential customers, the field will contain the first four characters of the Customers' last name as it appears on the bill. For Commercial and Industrial customers, this field will contain the first four characters of the Company name as it appears on the bill.	**X AN 1/60**

Segment: **LIN** **Item Identification**
Position: 010
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
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.
Semantic Notes:
1 LIN01 is the line item identification
Comments:
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.
Notes: Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**LIN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set A unique sequential number for each line item within this transaction set.	**O AN 1/20**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested A numeric or alphanumeric code from a list of services available to the customer Distribution Company to Supplier Change Enrollment Information Supplier to Distribution Company Change Enrollment Information SV Service Rendered Distribution Company to Supplier Change Error Response / Successful Response	**M ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service EL Electric Service Indicates a customer request to obtain electric service.	**M AN 1/48**

>>	**LIN04**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested A numeric or alphanumeric code from a list of services available to the customer		**X**	**ID 2/2**
>>	**LIN05**	**234**	**Product/Service ID** Identifying number for a product or service CE Customer Enrollment		**X**	**AN 1/48**

Segment: **ASI** **Action or Status Indicator**
Position: 020
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.

ESP - LDC request only. Responses to LDC are not supported

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**ASI01**	**306**	**Action Code**		**M**	**ID 1/2**
			Code indicating type of action			
			7	Request		
				Supplier To Distribution Company: Change Supplier Company Data Distribution Company To Supplier: Change Distribution Company Data		
			U	Reject		
				Inability to accept for processing due to the lack of required information		
				Distribution Company To Supplier: Error Response		
			WQ	Accept		
				Distribution Company To Supplier: Successful Change		
M	**ASI02**	**875**	**Maintenance Type Code**		**M**	**ID 3/3**
			Code identifying the specific type of item maintenance			
			001	Change		
				Supplier To Distribution Company: Change Supplier Company Data Distribution Company To Supplier Successful Change Response Supplier Change Data Error Response Distribution Company Changed Data Distribution Company To Supplier: Supplier Change Data Error Response Distribution Company Changed Data		

Segment: **REF** **Reference Identification - Supplier Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Supplier Account 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 Supplier Account Number for the end use customer.	**X AN 1/30**

Segment: **REF** **Reference Identification - Distribution Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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 if REF02 of REF*TD is REF12
A REF*45 is also expected with Old Account Number

LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Distribution Company Account 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 Distribution Company - assigned end use customer account number.	**X AN 1/30**

Segment: **REF** **Reference Identification - Old Distribution Co. Acct Number**
Position: 030
Loop: LIN Optional (Must Use)
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 if REF02 of REF*TD is REF12

LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 45 Old Account Number Identifies accounts being changed Distribution Company Old Account 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 Distribution Company - Old Account Number for the end use customer.	**X**	**AN 1/30**

Segment: **REF** **Reference Identification - Billing Cycle**
Position: 030
Loop: LIN Optional (Must Use)
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 if REF02 of REF*TD is REFBF

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BF Billing Center Identification Billing cycle.	**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 Billing cycle number when the bill will be rendered.	**X AN 1/30**

Segment: **REF** **Reference Identification - Billing Option**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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 if REF02 of REF*TD is REFBLT OR
when REF02 of REF*TD is REFPR or REFRB

ESP - LDC only
(optional on response from LDC)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BLT Billing Type Identifies whether the bill is consolidated by the LDC or whether each party will prepare their own bill. See REF02 for valid values.	**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 LDC The Distribution Company bills the customer for both the distribution company and supplier charges. (Complete Billing) DUAL The Distribution Company and the Supplier bill the customer their own charges with separate bills. (Pass thru Billing) DUAL The Distribution Company and the Supplier bill the customer their own charges with separate bills. (Pass through biling) LDC The Distribution Company bills the customer for both the distribution company and supplier charges. (Complete billing)	**X AN 1/30**

Segment: **REF** **Reference Identification - Public Aggregator**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Identifies a public or private group that aggregates customers and contracts load on their behalf. PG Product Group Aggregator Code	**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 Aggregator Code	**X AN 1/30**

Segment: **REF** **Reference Identification - Rejection Reason**
Position: 030
Loop: LIN Optional (Must Use)
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 convention of the REF segment is used primarily to convey status reason codes in response to a Request.

Required when ASI01 is U and rejection is at account level

LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			Code qualifying the Reference Identification			
			7G	Data Quality Reject Reason		
				Reject reasons associated with a reject status notification.		
>>	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			The following codes have been identified by the UIG to convey status reason codes. Other codes may be used by agreement of the trading partners when necessary.			
			008	Account exists but is not active		
			A13	Other - (REF03 required) Send email to MA EBT each time A13 is used for a new purpose		
			A74	Invalid Supplier Account Number		
			A76	Account not found - (This includes invalid account numbers)		
			A77	Name specified does not match account		
			A83	Unauthorized or invalid action - (Invalid type of service indicator, REF*PRT)		
			ABN	Duplicate request received		
			ACI	Action Code Invalid - (ASI01)		
			ANK	Invalid source of information		
			ANL	Service provider not licensed to provide requested service		
			C11	Change Reason (REF*TD) missing or invalid		
			DIV	Date Invalid		
			FRB	Incorrect Billing Option (REF*BLT) Requested		
			I1J	Invalid load asset id number		
			M1J	Missing load asset id number		

			TEI	Tax Exemption Percentage (AMT*DP) invalid		
			UND	Cannot identify Supplier		
>>	**REF03**	**352**	**Description**		**X**	**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.
STATUS CODES
Completion Status Code (C.S.C.)
100 Successful Enrollment Transaction Received
999 Errors on Transaction
Account (A) and Service (S) Level
Error Codes

A	101	Invalid Detail Record Indicator
A	102	Invalid Supplier Account Number
A	103	Invalid Distribution Company Account Number
A	104	Invalid Distribution Company Customer Name
A	107	Invalid Billing Option
S	109	Invalid Supplier Rate Code
S	110	Invalid Supplier Pricing Option
S	111	Invalid Type of Service Indicator
S	112	Invalid Service Identifier
A	114	Invalid Sales Tax Indicator
A	153	Invalid Supplier Identifier
A	154	Invalid Distribution Company Identifier
A	164	Customer Already Enrolled
A	165	Supplier on Probation
S	166	Invalid Related Service Failed
A	167	Customer Already Enrolled for Same Supplier
A	170	Invalid Public Aggregator Code
A	177	Invalid Customer Status
A	178	No Customer History Available

Segment: **REF** **Reference Identification - Reason For Change**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: If multiple changes are submitted on the same 814, there may be multiple REF*TD segments identifying each field to be changed.

Required when ASI01 is 7 for any account level changes.
Optional on LDC - ESP response

Example: REF*TD*AMTKC

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			Code qualifying the Reference Identification			
			TD	Reason for Change		
>>	**REF02**	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			AMTDP	Change Percentage of Service Tax Exemption		
			AMTFW	Change Supplier Fixed Charge		
			AMTKC	Change Capacity Obligation		
			DTM007	Change Effective Date		
			N18R	Change in Customer Name		
			N1BT	Change Bill To Name/Address		
			REF11	Change Supplier Assigned Account Number for the end use Customer		
			REF12	Change Distributor Assigned Account Number for the end use Customer		
			REF1J	Change ISO Asset Identifier		
			REFBF	Change Billing Cycle		
			REFBLT	Change Billing Type (Bill Presenter)		
			REFKY	Change Special Meter Configuration		
			REFNR	Change Budget Billing Code		
			REFSPL	Change STD Point Location Code - (Zone)		
>>	**REF03**	**352**	**Description**		**C**	**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.			
			A	Indicates the data element to be added		

	* Special Meter Configuration (net meter added)
D	Indicates the data element to be deleted
	* Special Meter Configuration (net meter removal)

Segment: **REF** **Reference Identification - STD Point Location Code**
Position: 030
Loop: LIN Optional (Must Use)
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: The Independent System Operator for New England (ISO-NE) has established 8 zonal areas within New England Power Pool in support of FERC's Standard Market Design rules. Each customer will be associated to a zone within the ISO as determined by the Local Distribution Company. Energy will be delivered to these zones, for customers within the zone, by their energy suppliers. The zone is a new attribute of a customer's account that needs to be provided to the Energy Supplier to enable them to manage their supply.

The zone attribute will be returned as part of a successful enrollment response to a supplier enrollment request. If the zone is changed by the LDC, during the period served by the supplier, an 814 Change transaction will be issued by the LDC with the new REF*SPL**ZONE identified.

Required if REF02 of REF*TD is REFSPL
LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification SPL Standard Point Location Code (SPLC) Standard Point Location Code (SPLC) Point at which the customer is connected to the transmission grid (ISO NE Zone). This represents the Wholesale Settlement Zone.	**M ID 2/3**
>>	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content ISO NE ZONES: NEMASSBOST NEWHAMPSHIRE RHODEISLAND SEMASS WCMASS	**X AN 1/80**

Segment: **REF** **Reference Identification - Current Budget Billing Status**
Position: 030
Loop: LIN Optional (Must Use)
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 if REF02 of REF*TD is REFNR.
Valid in both directions.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification NR Progress Payment Number Used to convey budget billing status. See REF02 for valid values.	**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 N The enrolling customer is not on budget billing. Y The enrolling customer is, or will be, on budget billing.	**X AN 1/30**

Segment: **REF** **Reference Identification - No ICAP Tag**
Position: 038
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Code qualifying the Reference Identification KC Exhibit Distribution List Qualifies a list of addressees to which the distribution of a cited contract exhibit must be made Capacity obligation/Load responsibility - Peak Load contribution provided to the ISO for installed Capacity Obligations.	**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 Literal "NO ICAP TAG" The REF*KC segment will only be sent if the ICAP Tag value in the Application file is blank. (A default value of Zero will be entered in the AMT Segments AMT02 element.)	**X AN 1/30**

Segment: **REF** **Reference Identification - Special Meter Configuration**
Position: 035
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Not used by NSTAR (see REFPRT). Not used by WMECO.

Example: REF*KY*NETMETER

Required if REF02 of REF*TD is REFKY

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification KY Site Specific Procedures, Terms, and Conditions A set of procedures, terms, and conditions, applicable to a category of procurement emanating from a specific location, which will be incorporated into all procurement actions in that category by referencing its unique number rather than by incorporating the lengthy details it represents Special Meter Configuration	**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 NETMETER Net Metering Present	**M AN 1/30**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content	**O AN 1/80**

Segment: **REF** **Reference Identification - Load Asset Identifier**
Position: 038
Loop: LIN Optional (Must Use)
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: Used by Eversource West
REF*1J*17777

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 1J Facility ID Number Load Asset Identifier	**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 Load Asset Identifier assigned to Supplier by ISO New England	**X AN 1/30**

Segment: **DTM** **Date/Time Reference - Effective**
Position: 040
Loop: LIN Optional (Must Use)
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: To specify a time zone (DTM04), both DTM03 and DTM04 must be present. Therefore, if specification of a time zone is necessary, DTM06 should include only the date, not the time.

ESP - LDC Optional
LDC - ESP Required

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 007 Effective Date upon which a change is requested to become effective or will become effective.	**M ID 3/3**
>>	**DTM05**	**1250**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	**X ID 2/3**
>>	**DTM06**	**1251**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times Effective Date of Service in CCYYMMDD format only.	**X AN 1/35**

Segment: **AMT** **Monetary Amount - Sales Tax**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Required if REF02 of REF*TD is AMTDP
valid in both directions

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount DP Exemption This code is used when a portion of the provided service is exempt from taxation. Element AMT02 identifies the percentage of the service that is tax exempt. T Tax This code used to identify the entire load as taxable.	**M ID 1/3**
M	**AMT02**	**782**	**Monetary Amount** Monetary amount For percentage values, the whole number "1" represents 100 percent. Decimal numbers less than "1" represent percentages from 1 percent to 99.99 percent. 1 100 percent This code is used when the customer is either 100% taxable or 100% exempt.	**M R 1/18**

Segment: **AMT** **Monetary Amount - ICAP Tag**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Required if REF02 of REF*TD is AMTKC
LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount KC Obligated Capacity Obligation - Load responsibility - Peak load contribution provided to the ISO for installed Capacity Obligations	**M ID 1/3**

Segment: **AMT** **Monetary Amount - Supplier Fixed Charge**
Position: 073
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Used by Eversource as part of Omni system.
Not used by NGRID, Unitil, Liberty.
ESP - LDC Request: Optional
ESP - LDC Response: Optional
This segment is sent by the Supplier when the customer's bill option is Rate Ready consolidated billing and the Supplier wants to bill the customer for a fixed charge amount in addition to the rate per kwh (REF*PR).
AMT~FW~2.00
AMT~FW~10
AMT~FW~0

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount FW Flat Fee Paid Current Month AMT02 contains the fixed charge amount that should be billed to the Supplier's customers expressed as a monetary amount.	**M ID 1/3**
M	**AMT02**	**782**	**Monetary Amount** Monetary amount This element is a real number. See Front Matter Notes regarding the syntax for real numbers.	**M R 1/18**

Segment: **NM1** **Individual or Organizational Name**
Position: 080
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Required to convey any changes to meter level information. Only NM101 and NM102 are required.
Valid in both directions

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**NM101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location	**M ID 2/3**
M	**NM102**	**1065**	**Entity Type Qualifier** Code qualifying the type of entity 3 Unknown Placeholder field only.	**M ID 1/1**

Segment: **REF** **Reference Identification - Old Service Identifier**
Position: 130
Loop: NM1 Optional (Must Use)
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 if REF02 of REF*TD is REFMG
LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 46 Old Meter Number Identifies meters being removed Identifies the customers' old specific service.	**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 The reference identification could be an old meter number or other old service code or number.	**X AN 1/30**

Segment: **REF** **Reference Identification - Load Profile**
Position: 130
Loop: NM1 Optional (Must Use)
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 if REF02 of REF*TD is REFLO
LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification LO Load Planning Number Load Profile	**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 Load Profile Code	**X AN 1/30**

Segment: **REF** **Reference Identification - Service Identifier**
Position: 130
Loop: NM1 Optional (Must Use)
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: Eversource West and Eversource North use this field for the Service Account ID (SAID)

Required for all meter level changes.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MG Meter Number Identifies a specific service.	**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 The reference identification could be a meter number or other service code or number.	**X AN 1/30**

Segment: **REF** **Reference Identification - Distribution Company Rate Code**
Position: 130
Loop: NM1 Optional (Must Use)
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 if REF02 of REF*TD is REFNH
LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification NH Rate Card Number Rate Class or Tariff Identifier.	**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 Distribution Company Rate or Tariff Code.	**X**	**AN 1/30**

Segment: **REF** **Reference Identification - Type of Service**
Position: 130
Loop: NM1 Optional (Must Use)
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 for all meter level changes.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PRT Product Type Identifies the type of service being provided to the customer.	**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 Used to identify the means by which service is provided to the customer. It may also Identify the type of metering installed or the type of unmetered service being provided to the customer. A Apply to All Services C Combined Service (Multiple Meters Billed as a Summary) D Metered Service Demand & kWh E Metered Service kWh F Metered Service TOU - Off Peak H Controlled Hot Water L Lighting Service N Non-Metered Service O Metered Service TOU - On Peak T Metered Service TOU	**X AN 1/30**
R	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content To indicate presence of Net Meter X Net Meter	**X AN 1/80**

Segment: **REF** **Reference Identification - Supplier Pricing Structure**
Position: 130
Loop: NM1 Optional (Must Use)
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 if REF02 of REF*TD is REFPR
Required if REF02 of REF*TD is REFRB
Required if REF02 of REF*TD is REFBLT and REF02 of REFBLT is LDC

ESP - LDC
(optional on response from LDC)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PR Price Quote Number Identifies a unit price category under a rate code for the customer.	**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 Unit pricing category code.	**X AN 1/30**

Segment: **REF** **Reference Identification - Supplier Rate Code**
Position: 130
Loop: NM1 Optional (Must Use)
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 if REF02 of REF*TD is REFRB
Required if REF02 of REF*TD is REFPR
Required if REF02 of REF*TD is REFBLT and REF02 of REFBLT is LDC

ESP - LDC
(optional on response from LDC)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification RB Rate code number Identifies the Supplier Rate Class for this customer.	**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 Supplier Rate Class code.	**X AN 1/30**

Segment: **REF** **Reference Identification - Reject Reason**
Position: 130
Loop: NM1 Optional (Must Use)
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 for all meter level rejections
LDC - ESP only

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 7G Data Quality Reject Reason Reject reasons associated with a reject status notification.	**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 A13 Other - (REF03 required) Send email to MA EBT each time A13 is used for a new purpose See explanation in REF03 A83 Unauthorized or invalid action - (Invalid type of service indicator, REF*PRT) C11 Change Reason (REF*TD) missing or invalid MNM Invalid Service Identifier PCI Price Code invalid W05 Requested Rate not found or not in effect on the requested date (Rate Ready only)	**X AN 1/80**
D	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Used to further describe the status reason code sent in REF02. STATUS CODES Completion Status Code (C.S.C.) 100 Successful Enrollment Transaction Received 999 Errors on Transaction Account (A) and Service (S) Level Error Codes A 101 Invalid Detail Record Indicator A 102 Invalid Supplier Account Number A 103 Invalid Distribution Company Account Number A 104 Invalid Distribution Company Customer Name A 107 Invalid Billing Option S 109 Invalid Supplier Rate Code S 110 Invalid Supplier Pricing Option S 111 Invalid Type of Service Indicator	**X AN 1/80**

S	112	Invalid Service Identifier
A	114	Invalid Sales Tax Indicator
A	153	Invalid Supplier Identifier
A	154	Invalid Distribution Company Identifier
A	164	Customer Already Enrolled
A	165	Supplier on Probation
S	166	Invalid Related Service Failed
A	167	Customer Already Enrolled for Same Supplier
A	170	Invalid Public Aggregator Code
A	177	Invalid Customer Status
A	178	No Customer History Available

Segment: **REF** **Reference Identification - Reason for Change**
Position: 130
Loop: NM1 Optional (Must Use)
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 convention of the REF segment is used for meter maintenance, to convey change reason codes. The first portion of the code identifies the segment that contains the data that has been changed; the second portion of the code identifies the relevant code qualifier for the data that has been changed; the third portion of the code allows for free text description to further explain nature of change The changed data will appear in the appropriate element of the identified segment. For example, a REF02 code of REFNH indicates that the data in the REF segment that is identified by the qualifier NH (i.e., LDC Rate Code) has been changed to the value now shown in REF02.

ex: REF*TD*REFNH

If multiple changes are submitted on the same 814, there may be multiple REF*TD segments identifying each field to be changed.

Required for all meter level changes.
Valid on requests in both directions. Optional on response from LDC

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification TD Reason for Change	**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 REFLO Change Load Profile Rate Code REFMG Change Service Identifier REFNH Change LDC Rate Code REFPR Change Supplier Unit Pricing Category Code REFPRT Change Type of Service REFRB Change Supplier Rate Code	**X AN 1/30**

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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
M	**SE02**	**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**

MASSACHUSETTS Electronic Business Transactions Standard

For

Electronic Data Interchange

TRANSACTION SET

814

Drop Request, Response or Confirmation

Ver/Rel 004010

	Summary of Changes
August 2, 1999	• Initial Release – Version 99.1
April 15, 2002	• Added REF*LO Segment for Load Profile Codes • Added REF*TD Segments Reason for Change in the LIN and NM1 loops. • Sequenced the Segments to agree with the UIG Guides • Added Status reason code tables to REF*7G Segment • Added/or changes some data element descriptions for clarification • Removed REF*RB REF02 element table description that didn't pertain to MA
June 30, 2004	• Added Service Address N3 and N4 segments for MOVE transaction. • Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element. • Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only. • Added Dun's + 4 capability for Suppliers to use on the N1*SJ Segment. • Dropped the requirement for the mandatory 4 character name on the N1*8R segment for Commercial and Industrial Accounts only. • Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.
June 27, 2006	• Added Green-Up program for National Grid's MA and RI Customers. • This included a DTM and an additional REF*PR segments. • Added Budget Billing notification REF segment. REF*NR indicates if a customer is on a budget billing plan or not. It is a Y / N field. • Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added. • A REF*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment. • A REF*TD*KC has been added to the reason for change segment and an AMT segment to carry the ICAP VALUE.

	(Remember that an ICAP VALUE can be zero as a valid value. This is why we needed to add a REF*KC segment to tell folks when the zero value is actually blank or no value.
July 6, 2011	• Added new REF*1P segment with REF02 values for use in 814 Drop Requests: o REF02 Code:'020', REF03 Description: 'Customer Moved / Account Closed' o REF02 Code:'CHA', REF03 Description: 'Customer Changed to Another Service Provider' o REF02 Code: 'B38', REF03 Description: 'Customer Return to Standard Service' o REF02 Code: 'A13', REF03 Description: 'Other: [detailed description required]'
January 14, 2015	• Separated into own document. o Added REF03 to REF*PRT for Net Meter Indicator
November 4, 2015	• Final Release
January 31, 2024 Version 2.1	• Incorporated CC 026 o clarify the requirements for the N101 value for the N1*8R segment • Incorporated CC 032 o add Rejection Response Code DIV (Date Invalid). Example: REF*7G*DIV. • Incorporated CC 033 o to codify using either the BGN02 or BGN06 to send back the requests Reference Identification in the 814 Response

814 General Request, Response or Confirmation

Functional Group ID=GE

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	ST	Transaction Set Header	M	1	
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Distribution Company	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Supplier	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Customer	O	1	
			LOOP ID - N1			1
	040	N1	Name - Bill To Identifier	O	1	
	060	N3	Address Information	O	1	
	070	N4	Geographic Location	O	1	

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
			LOOP ID - LIN			1
Must Use	010	LIN	Item Identification	O	1	
Must Use	020	ASI	Action or Status Indicator	O	1	
Must Use	030	REF	Reference Identification - Supplier Account Number	O	1	
Must Use	030	REF	Reference Identification - Distribution Account Number	O	1	
	030	REF	Reference Identification - Old Distribution Co. Acct Number	O	1	
	030	REF	Reference Identification - Rejection Reason	O	>1	
	030	REF	Reference Identification - (1P Status Reason)	O	>1	
	040	DTM	Date/Time Reference - Effective	O	1	
	060	AMT	Monetary Amount - Sales Tax	O	1	
	073	AMT	Monetary Amount - ICAP Tag	O	1	
			LOOP ID - NM1			>1
Must Use	080	NM1	Individual or Organizational Name	O	1	
	130	REF	Reference Identification - Service Identifier	O	1	
	130	REF	Reference Identification - Distribution Company Rate Code	O	1	
	130	REF	Reference Identification - Reject Reason	O	>1	
M	150	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:

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		
			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		
			Unique number generated by Sender's Translator		

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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BGN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 06 Confirmation Distribution company to Supplier Confirms Drop of Service Received 11 Response Distribution Company to Supplier Drop Error Response 13 Request Supplier to Distribution Company Supplier Drops Customer 14 Advance Notification Distribution Company to Supplier Customer Drops Supplier	**M ID 2/2**
M	**BGN02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Request: Unique Tracking Identification Number assigned by the Senders application interface Response: The BGN02 from the originating BGN02 814 Request Or 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. The identification number must be unique over time. In this case, the BGN06 will be used to convey The BGN02 from the originating BGN02	**M AN 1/30**

			814 Request.		
M	**BGN03**	**373**	**Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		
			The transaction creation date. This is the date that the transaction was created by the sender's application system.		
	BGN06	**127**	**Reference Identification**	**O**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			If used, refers to the BGN02 identification number of the original Request. Unique Tracking Identification Number sent with the originating transaction. If not contained in the BGN02		

Segment: **N1** **Name - Distribution Company**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Distribution Company	**M**	**ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Distribution Company Name (Text)	**X**	**AN 1/60**
>>	**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	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Distribution Company D-U-N-S Number	**X**	**AN 2/80**

Segment: **N1** **Name - Supplier**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered Supplier	**M**	**ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Supplier Name (Text)	**X**	**AN 1/60**
>>	**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	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Supplier D-U-N-S Number	**X**	**AN 2/80**

Segment: **N1** **Name - Customer**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8R Consumer Service Provider (CSP) Customer Customer	**M**	**ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Distribution Company Customer Name Key Required for Residential customers only. This field will contain the first four characters of the Customers' last name as it appears on the bill.	**X**	**AN 1/60**

Segment: **N1** **Name - 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: May be sent on LDC - ESP drop requests

Data Element Summary

	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			
			BT	Bill-to-Party		
				Used to identify a billing address for the customer associated with the service account identified in the NM1/REF segment.		
>>	**N102**	**93**	**Name**		**X**	**AN 1/60**
			Free-form name			
			NV	No Value		

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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information Bill To Address	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information Additional Address Information	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	**19**	**City Name**	**O**	**AN 2/30**
		Free-form text for city name		
		Bill To City Name		
N402	**156**	**State or Province Code**	**O**	**ID 2/2**
		Code (Standard State/Province) as defined by appropriate government agency		
		Bill To State Code		
N403	**116**	**Postal Code**	**O**	**ID 3/15**
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
		Bill To Postal Code		
N404	**26**	**Country Code**	**O**	**ID 2/3**
		Code identifying the country		
		Bill To Country Code (i.e. USA)		

Segment: **LIN** **Item Identification**
Position: 010
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
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.
Semantic Notes:
1 LIN01 is the line item identification
Comments:
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.
Notes: Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**LIN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set A unique sequential number for each line item within this transaction set.	**O**	**AN 1/20**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested A numeric or alphanumeric code from a list of services available to the customer Supplier to Distribution Company Supplier Drops Customer SV Service Rendered Distribution Company to Supplier Drop Error Response Customer Drops Supplier Confirm Drop of Service	**M**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service EL Electric Service Indicates a customer request to obtain electric service.	**M**	**AN 1/48**
>>	**LIN04**	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
			SH	Service Requested		
				A numeric or alphanumeric code from a list of services available to the customer		
>>	**LIN05**	**234**	**Product/Service ID**		**X**	**AN 1/48**
			Identifying number for a product or service			
			CE	Customer Enrollment		

Segment: **ASI** **Action or Status Indicator**
Position: 020
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**ASI01**	**306**	**Action Code**		**M**	**ID 1/2**
			Code indicating type of action			
			7	Request Supplier To Distribution Company: Supplier Drops Customer Distribution Company To Supplier: Customer Drops Supplier		
			U	Reject Inability to accept for processing due to the lack of required information Distribution Company To Supplier: Error Response		
			V	Respond A reply or answer Distribution Company To Supplier: Confirm Drop Date		
M	**ASI02**	**875**	**Maintenance Type Code**		**M**	**ID 3/3**
			Code identifying the specific type of item maintenance			
			024	Cancellation or Termination Supplier To Distribution Company: Supplier Drops Customer Distribution Company To Supplier: Customer Drops Supplier Confirm Drop Date Error on Supplier Drop Transaction Distribution Company To Supplier: Customer Drops Supplier Confirm Drop Date Error on Supplier Drop Transaction		

Segment: **REF** **Reference Identification - Supplier Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Supplier	**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 Supplier Account Number for the end use customer.	**X AN 1/30**

Segment: **REF** **Reference Identification - Distribution Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Distribution Company	**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 Distribution Company - assigned end use customer account number.	**X AN 1/30**

Segment: **REF** **Reference Identification - Old Distribution Co. Acct Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 45 Old Account Number Identifies accounts being changed Distribution Company	**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 Distribution Company - Old Account Number for the end use customer.	**X AN 1/30**

Segment: **REF** **Reference Identification - Rejection Reason**
Position: 030
Loop: LIN Optional (Must Use)
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 convention of the REF segment is used primarily to convey status reason codes in response to a Request.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 7G Data Quality Reject Reason Reject reasons associated with a reject status notification.	**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 The following codes have been identified by the UIG to convey status reason codes. Other codes may be used by agreement of the trading partners when necessary. 008 Account exists but is not active A13 Other A74 Invalid Supplier Account Number A76 Account not found - (This includes invalid account numbers) A77 Name specified does not match account A83 Unauthorized or invalid action - (Invalid type of service indicator, REF*PRT) ABN Duplicate request received ACI Action Code Invalid - (ASI01) ANK Invalid source of information ANL Service provider not licensed to provide requested service B39 Already Dropped DIV Date Invalid I1J Invalid load asset id number MNM Invalid Service Identifier UND Cannot identify Supplier UNE Cannot identify LDC	**X AN 1/30**
R	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Used to further describe the status reason code sent in REF02.	**X AN 1/80**

STATUS CODES
Completion Status Code (C.S.C.)
100 Successful Enrollment Transaction Received
999 Errors on Transaction
Account (A) and Service (S) Level
Error Codes

A	101	Invalid Detail Record Indicator
A	102	Invalid Supplier Account Number
A	103	Invalid Distribution Company Account Number
A	104	Invalid Distribution Company Customer Name
A	107	Invalid Billing Option
S	109	Invalid Supplier Rate Code
S	110	Invalid Supplier Pricing Option
S	111	Invalid Type of Service Indicator
S	112	Invalid Service Identifier
A	114	Invalid Sales Tax Indicator
A	153	Invalid Supplier Identifier
A	154	Invalid Distribution Company Identifier
A	164	Customer Already Enrolled
A	165	Supplier on Probation
S	166	Invalid Related Service Failed
A	167	Customer Already Enrolled for Same Supplier
A	170	Invalid Public Aggregator Code
A	177	Invalid Customer Status
A	178	No Customer History Available

Segment: **REF** **Reference Identification - (1P Status Reason)**
Position: 030
Loop: LIN Optional (Must Use)
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 convention of the REF segment is used primarily to convey status reason codes in response to a Request.
Rules for Status Reason Codes

The codes that follow have been identified by the MAEBT to convey status reasons. Only the codes listed for each service are valid for that service. If you require additional codes, send an email to the state's listserver.

"A13" (Other) must only be used when an existing error code does not convey the reason correctly. Each time "A13" (Other) is used for a new purpose, an E-mail must be sent to the MAEBT listserver by the party sending the code, to notify the market participants about the text explanation for A13. This information will be compiled and new codes will be issued on a periodic basis.

MA EBT Working Group: MASSEBT@LISTSERV.MASSELECTRIC.COM

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 1P Accessorial Status Code Qualifies a single number that describes the status of an accessorial transportation service Required field on Drop Request	**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 The following codes have been identified by the UIG to convey status reason codes. Other codes may be used by agreement of the trading partners when necessary. LDC Drop Request to ESP / ESP Drop Request to LDC X — 020 Customer moved or account closed X X A13 Other Explanation Required in REF03 X X B38 Dropped by Customer Request Customer was terminated by the Service Provider for reasons	**X AN 1/30**

			other than			nonpayment
			X	CHA	Customer changed to another Service Provider	
R	**REF03**	**352**	**Description**			**X 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. STATUS CODES Completion Status Code (C.S.C.) 100 Successful Enrollment Transaction Received 999 Errors on Transaction Account (A) and Service (S) Level Error Codes A 101 Invalid Detail Record Indicator A 102 Invalid Supplier Account Number A 103 Invalid Distribution Company Account Number A 104 Invalid Distribution Company Customer Name A 107 Invalid Billing Option S 109 Invalid Supplier Rate Code S 110 Invalid Supplier Pricing Option S 111 Invalid Type of Service Indicator S 112 Invalid Service Identifier A 114 Invalid Sales Tax Indicator A 153 Invalid Supplier Identifier A 154 Invalid Distribution Company Identifier A 164 Customer Already Enrolled A 165 Supplier on Probation S 166 Invalid Related Service Failed A 167 Customer Already Enrolled for Same Supplier A 170 Invalid Public Aggregator Code A 177 Invalid Customer Status A 178 No Customer History Available			

Segment: **DTM** **Date/Time Reference - Effective**
Position: 040
Loop: LIN Optional (Must Use)
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: To specify a time zone (DTM04), both DTM03 and DTM04 must be present. Therefore, if specification of a time zone is necessary, DTM06 should include only the date, not the time. Required LDC - ESP

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 007 Effective Date upon which deletion is requested to become effective or will become effective.	**M**	**ID 3/3**
>>	**DTM05**	**1250**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	**X**	**ID 2/3**
>>	**DTM06**	**1251**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times Effective Date of Service in CCYYMMDD format only.	**X**	**AN 1/35**

Segment: **AMT** **Monetary Amount - Sales Tax**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount DP Exemption This code is used when a portion of the provided service is exempt from taxation. Element AMT02 identifies the percentage of the service that is tax exempt. T Tax This code used to identify the entire load as taxable.	**M ID 1/3**
M	**AMT02**	**782**	**Monetary Amount** Monetary amount For percentage values, the whole number "1" represents 100 percent. Decimal numbers less than "1" represent percentages from 1 percent to 99.99 percent. 1 100 percent This code is used when the customer is either 100% taxable or 100% exempt.	**M R 1/18**

Segment: **AMT** **Monetary Amount - ICAP Tag**
Position: 073
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount KC Obligated Capacity Obligation - Load responsibility - Peak load contribution provided to the ISO for installed Capacity Obligations.	**M ID 1/3**
M	**AMT02**	**782**	**Monetary Amount** Monetary amount ICAP TAG VALUE (Should never be blank. If the ICAP TAG Application file field is blank the default will be zero for this field, otherwise, it will either be zero or greater). Field format is 5.3 or 5 places to the left of the decimal and 3 places to the right of the decimal.) (To determine if a zero in this field is the ICAP TAG or the default value refer to the REF*KC segment REF02 element description).	**M R 1/18**

Segment: **NM1** **Individual or Organizational Name**
Position: 080
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: This segment is used to convey meter level information. Only NM101 and NM102 are required.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**NM101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location	**M ID 2/3**
M	**NM102**	**1065**	**Entity Type Qualifier** Code qualifying the type of entity 3 Unknown Placeholder field only.	**M ID 1/1**

Segment: **REF** **Reference Identification - Service Identifier**
Position: 130
Loop: NM1 Optional (Must Use)
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: Used by Eversource West and Eversource North as Service Account Identifier

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MG Meter Number Identifies a specific service.	**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 The reference identification could be a meter number or other service code or number	**X**	**AN 1/30**

Segment: **REF** **Reference Identification - Distribution Company Rate Code**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification NH Rate Card Number Rate Class or Tariff Identifier.	**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 Distribution Company Rate or Tariff Code.	**X AN 1/30**

Segment: **REF** **Reference Identification - Reject Reason**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 7G Data Quality Reject Reason Reject reasons associated with a reject status notification.	**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 A13 Other See explanation in REF03 MNM Invalid Service Identifier	**X AN 1/30**
>>	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Used to further describe the status reason code sent in REF02. STATUS CODES Completion Status Code (C.S.C.) 100 Successful Enrollment Transaction Received 999 Errors on Transaction Account (A) and Service (S) Level Error Codes A 101 Invalid Detail Record Indicator A 102 Invalid Supplier Account Number A 103 Invalid Distribution Company Account Number A 104 Invalid Distribution Company Customer Name A 107 Invalid Billing Option S 109 Invalid Supplier Rate Code S 110 Invalid Supplier Pricing Option S 111 Invalid Type of Service Indicator S 112 Invalid Service Identifier A 114 Invalid Sales Tax Indicator A 153 Invalid Supplier Identifier A 154 Invalid Distribution Company Identifier A 164 Customer Already Enrolled A 165 Supplier on Probation S 166 Invalid Related Service Failed A 167 Customer Already Enrolled for Same Supplier	**X AN 1/80**

A	170	Invalid Public Aggregator Code
A	177	Invalid Customer Status
A	178	No Customer History Available

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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M**	**N0 1/10**
M	**SE02**	**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**

MASSACHUSETTS Electronic Business Transactions Standard

For

Electronic Data Interchange

TRANSACTION SET

814 Enroll

Request / Response

Ver/Rel 004010

	Summary of Changes
August 2, 1999	• Initial Release – Version 99.1
April 15, 2002	• Added REF*LO Segment for Load Profile Codes • Added REF*TD Segments Reason for Change in the LIN and NM1 loops. • Sequenced the Segments to agree with the UIG Guides • Added Status reason code tables to REF*7G Segment • Added/or changes some data element descriptions for clarification • Removed REF*RB REF02 element table description that didn't pertain to MA
June 30, 2004	• Added Service Address N3 and N4 segments for MOVE transaction. • Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element. • Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only. • Added Dun's + 4 capability for Suppliers to use on the N1*SJ Segment. • Dropped the requirement for the mandatory 4 character name on the N1*8R segment for Commercial and Industrial Accounts only. • Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.
June 27, 2006	• Added Green-Up program for National Grid's MA and RI Customers. • This included a DTM and an additional REF*PR segments. • Added Budget Billing notification REF segment. REF*NR indicates if a customer is on a budget billing plan or not. It is a Y / N field. • Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added. • A REF*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment. • A REF*TD*KC has been added to the reason for change segment and an AMT segment to carry the ICAP VALUE.

	(Remember that an ICAP VALUE can be zero as a valid value. This is why we needed to add a REF*KC segment to tell folks when the zero value is actually blank or no value.
January 14, 2015	• Separated into own document. • Added REF03 to REF*PRT for Net Meter Indicator
January 20, 2015	• Added REF03 to REF*TD in NM1 loop to allow for description of change in support of Net Metering.
October 26, 2015	• Administrative corrections/updates • Added new segment REF*KY in support of Net Metering.
November 4, 2015 Version 2.0	• Final Release
January 31, 2014 Version 2.1	• Incorporated CC 026 o clarify the requirements for the N101 value for the N1*8R segment • Incorporated CC 032 o add Rejection Response Code DIV (Date Invalid). Example: REF*7G*DIV. • Incorporated CC 033 o to codify using either the BGN02 or BGN06 to send back the requests Reference Identification in the 814 Response • Incorporated CC 034 o add REF*1J segment as optional and sent by Eversource West as the Load Asset Id assigned to the Supplier by ISO New England • Incorporated CC 035 o Addition of AMT*FW Segment for supplier fixed charge for Eversource Omni

814 General Request, Response or Confirmation

Functional Group ID=GE

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	ST	Transaction Set Header	M	1	
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
M	040	N1	Name - Distribution Company	M	1	
			LOOP ID - N1			1
M	040	N1	Name - Supplier	M	1	
			LOOP ID - N1			1
M	040	N1	Name - Customer	M	1	
	060	N3	Address Information - Service Address	O	2	
	070	N4	Geographic Location - Service Address	O	1	
			LOOP ID - N1			1
	040	N1	Name - Bill To Identifier	O	1	
	060	N3	Address Information	O	1	
	070	N4	Geographic Location	O	1	

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
			LOOP ID - LIN			1
Must Use	010	LIN	Item Identification	O	1	
Must Use	020	ASI	Action or Status Indicator	O	1	
Must Use	030	REF	Reference Identification - Supplier Account Number	O	1	
Must Use	030	REF	Reference Identification - Distribution Account Number	O	1	
	030	REF	Reference Identification - Old Distribution Co. Acct Number	O	1	
	030	REF	Reference Identification - Billing Cycle	O	1	
Must Use	030	REF	Reference Identification - Billing Option	O	1	
	030	REF	Reference Identification - Public Aggregator	O	1	
	030	REF	Reference Identification - Rejection Reason	O	>1	
	030	REF	Reference Identification - STD Point Location Code	O	1	
	030	REF	Reference Identification - Current Budget Billing Status	O	1	
	030	REF	Reference Identification - No ICAP Tag	O	1	
	035	REF	Reference Identification - Special Meter Configuration	O	1	
	038	REF	Reference Identification - Load Asset Identfier	O	1	

	040	DTM	Date/Time Reference - Effective	O	1	
	060	AMT	Monetary Amount - Sales Tax	O	1	
	060	AMT	Monetary Amount - ICAP Tag	O	1	
	068	AMT	Monetary Amount - Supplier Fixed Charge	O	1	
			LOOP ID - NM1			>1
Must Use	080	NM1	Individual or Organizational Name	O	1	
	130	REF	Reference Identification - Old Service Identifier	O	1	
	130	REF	Reference Identification - Load Profile	O	1	
	130	REF	Reference Identification - Service Identifier	O	1	
	130	REF	Reference Identification - Distribution Company Rate Code	O	1	
M	130	REF	Reference Identification - Type of Service	M	1	
	130	REF	Reference Identification - Supplier Pricing Structure	O	1	
	130	REF	Reference Identification - Supplier Rate Code	O	1	
	130	REF	Reference Identification - Reject Reason	O	>1	
M	150	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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	**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 Unique number generated by Sender's Translator	**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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BGN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 06 Confirmation Distribution company to Supplier Confirms Successful Enrollment Received 11 Response Distribution Company to Supplier Enrollment Error Response 13 Request Supplier to Distribution Company Enrollment Request	**M ID 2/2**
M	**BGN02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Request: Unique Tracking Identification Number assigned by the Senders application interface Response: The BGN02 from the originating BGN02 814 Request Or 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. The identification number must be unique over time. In this case, the BGN06 will be used to convey The BGN02 from the originating BGN02 814 Request.	**M AN 1/30**

M	**BGN03**	**373**	**Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		
			The transaction creation date. This is the date that the transaction was created by the sender's application system.		
	BGN06	**127**	**Reference Identification**	**O**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Unique Tracking Identification Number sent with the originating transaction. If not contained in the BGN02		

Segment: **N1** **Name - Distribution Company**
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.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Distribution Company	**M**	**ID 2/3**
M	**N102**	**93**	**Name** Free-form name Distribution Company Name (Text)	**M**	**AN 1/60**
	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	**X**	**ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code Distribution Company D-U-N-S Number	**O**	**AN 2/80**

Segment: **N1** **Name - 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.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered Supplier	**M**	**ID 2/3**
M	**N102**	**93**	**Name** Free-form name Supplier Name (Text)	**M**	**AN 1/60**
>>	**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	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Supplier D-U-N-S Number or D-U-N-S + 4 Number	**O**	**AN 2/80**

Segment: **N1** **Name - Customer**
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.
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*JONE
N1*8R*TOWN

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8R Consumer Service Provider (CSP) Customer Customer	**M ID 2/3**
M	**N102**	**93**	**Name** Free-form name Distribution Company Customer Name Key Required for Residential customers only. This field will contain the first four characters of the Customer's last name as it appears on the bill. For commercial customers this will be the first four characters of company name.	**M AN 1/60**

Segment: **N3** **Address Information - Service Address**
Position: 060
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information**	**M**	**AN 1/55**
			Address information		
			Customer Service Address		
	N302	**166**	**Address Information**	**O**	**AN 1/55**
			Address information		

Segment: **N4** **Geographic Location - Service Address**
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	**19**	**City Name** Free-form text for city name	**O AN 2/30**
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O ID 3/15**
N404	**26**	**Country Code** Code identifying the country	**O ID 2/3**

Segment: **N1** **Name - 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.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
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 identified in the NM1/REF segment. Only sent if Mailing Address is different than the Customer's Service Address.		
>>	**N102**	**93**	**Name**		**X**	**AN 1/60**
			Free-form name			
			NV	No Value		

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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information Bill To Address	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information Additional Address Information	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	**19**	**City Name**	**O**	**AN 2/30**
		Free-form text for city name		
		Bill To City Name		
N402	**156**	**State or Province Code**	**O**	**ID 2/2**
		Code (Standard State/Province) as defined by appropriate government agency		
		Bill To State Code		
N403	**116**	**Postal Code**	**O**	**ID 3/15**
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
		Bill To Postal Code		
N404	**26**	**Country Code**	**O**	**ID 2/3**
		Code identifying the country		
		Bill To Country Code (i.e. USA)		

Segment: **LIN** **Item Identification**
Position: 010
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
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.
Semantic Notes:
1 LIN01 is the line item identification
Comments:
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.
Notes: Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**LIN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set A unique sequential number for each line item within this transaction set.	**O**	**AN 1/20**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested A numeric or alphanumeric code from a list of services available to the customer Supplier to Distribution Company Enrollment Request SV Service Rendered Distribution Company to Supplier Successful Enrollment Response Received Enrollment Error Response	**M**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service EL Electric Service Indicates a customer request to obtain electric service.	**M**	**AN 1/48**

>>	**LIN04**	**235**	**Product/Service ID Qualifier**		**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
			SH	Service Requested		
				A numeric or alphanumeric code from a list of services available to the customer		
>>	**LIN05**	**234**	**Product/Service ID**		**X**	**AN 1/48**
			Identifying number for a product or service			
			CE	Customer Enrollment		

Segment: **ASI** **Action or Status Indicator**
Position: 020
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**ASI01**	**306**	**Action Code**		**M ID 1/2**
			Code indicating type of action		
			7	Request	
				Supplier To Distribution Company: Enroll Customer	
			U	Reject	
				Inability to accept for processing due to the lack of required information	
				Distribution Company To Supplier: Error Response	
			WQ	Accept	
				Distribution Company To Supplier: Successful Enrollment	
M	**ASI02**	**875**	**Maintenance Type Code**		**M ID 3/3**
			Code identifying the specific type of item maintenance		
			021	Addition	
				Use when requesting or confirming a new service. Supplier To Distribution Company: Enroll Customer Distribution Company To Supplier: Successful Enrollment Error on Enrollment Transaction Distribution Company To Supplier: Successful Enrollment Error on Enrollment Transaction	

Segment: **REF** **Reference Identification - Supplier Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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 by NSTAR.

REF*11*0123465789

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Supplier Account 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 Supplier Account Number for the end use customer.	**X AN 1/30**

Segment: **REF** **Reference Identification - Distribution Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: For Northeast Utilities this is the BA ID.

REF*12*0512313131

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Distribution Company	**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 Distribution Company - assigned end use customer account number.	**X AN 1/30**

Segment: **REF** **Reference Identification - Old Distribution Co. Acct Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 45 Old Account Number Identifies accounts being changed Distribution Company	**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 Distribution Company - Old Account Number for the end use customer.	**X AN 1/30**

Segment: **REF** **Reference Identification - Billing Cycle**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BF Billing Center Identification Billing cycle.	**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 Billing cycle number when the bill will be rendered.	**X AN 1/30**

Segment: **REF** **Reference Identification - Billing Option**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BLT Billing Type Identifies whether the bill is consolidated by the LDC or whether each party will prepare their own bill. See REF02 for valid values.	**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 DUAL The Distribution Company and the Supplier bill the customer their own charges with separate bills. (Pass through billing) Pass Through billing LDC The Distribution Company bills the customer for both the distribution company and supplier charges. (Complete billing) Complete Billing	**X AN 1/30**

Segment: **REF** **Reference Identification - Public Aggregator**
Position: 030
Loop: LIN Optional (Must Use)
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: Used by NSTAR for Aggregated suppliers for Cape Light or Town of Ashland
REF*PG*CAPE
REF*PG*ASHL

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Identifies a public or private group that aggregates customers and contracts load on their behalf. PG Product Group Aggregator Code	**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 Aggregator Code	**X AN 1/30**

Segment: **REF** **Reference Identification - Rejection Reason**
Position: 030
Loop: LIN Optional (Must Use)
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 convention of the REF segment is used primarily to convey status reason codes in response to a Request.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 7G Data Quality Reject Reason Reject reasons associated with a reject status notification.	**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 The following codes have been identified by the UIG to convey status reason codes. Other codes may be used by agreement of the trading partners when necessary. 008 Account exists but is not active A13 Other - (Ref03 required) Send email to MA EBT each time A13 is used for a new purpose A74 Invalid Supplier Account Number A76 Account not found - (This includes invalid account numbers) A77 Name specified does not match account ABN Duplicate request received ACI Action Code Invalid - (ASI01) ANK Invalid source of information ANL Service provider not licensed to provide requested service B30 Currently Enrolled DIV Date Invalid FRB Incorrect Billing Option (REF*BLT) Requested TEI Tax Exemption Percentage (AMT*DP) invalid UND Cannot identify Supplier UNE Cannot identify LDC W05 Requested Rate not found or not in effect on the requested date - (Rate Ready Only)	**X AN 1/30**
D	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**

Used to further describe the status reason code sent in REF02.
STATUS CODES
Completion Status Code (C.S.C.)
100 Successful Enrollment Transaction Received
999 Errors on Transaction
Account (A) and Service (S) Level
Error Codes

A	101	Invalid Detail Record Indicator
A	102	Invalid Supplier Account Number
A	103	Invalid Distribution Company Account Number
A	104	Invalid Distribution Company Customer Name
A	107	Invalid Billing Option
S	109	Invalid Supplier Rate Code
S	110	Invalid Supplier Pricing Option
S	111	Invalid Type of Service Indicator
S	112	Invalid Service Identifier
A	114	Invalid Sales Tax Indicator
A	153	Invalid Supplier Identifier
A	154	Invalid Distribution Company Identifier
A	164	Customer Already Enrolled
A	165	Supplier on Probation
S	166	Invalid Related Service Failed
A	167	Customer Already Enrolled for Same Supplier
A	170	Invalid Public Aggregator Code
A	177	Invalid Customer Status

Segment: **REF** **Reference Identification - STD Point Location Code**
Position: 030
Loop: LIN Optional (Must Use)
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:

The Independent System Operator for New England (ISO-NE) has established 8 zonal areas within New England Power Pool in support of FERC's Standard Market Design rules. Each customer will be associated to a zone within the ISO as determined by the Local Distribution Company. Energy will be delivered to these zones, for customers within the zone, by their energy suppliers. The zone is a new attribute of a customer's account that needs to be provided to the Energy Supplier to enable them to manage their supply.

The zone attribute will be returned as part of a successful enrollment response to a supplier enrollment request. If the zone is changed by the LDC, during the period served by the supplier, an 814 Change transaction will be issued by the LDC with the new REF*SPL**ZONE identified. The zone would also be issued on a MOVE transaction and a successful response to a Historical Usage Request, 867 Document.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Identifies a public or private group that aggregates customers and contracts load on their behalf. SPL Standard Point Location Code (SPLC) Standard Point Location Code (SPLC) Point at which the customer is connected to the transmission grid (ISO NE Zone). This represents the Wholesale Settlement Zone.	**M ID 2/3**
>>	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content ISO NE ZONES: NEMASSBOST NEWHAMPSHIRE RHODEISLAND SEMASS WCMASS	**X AN 1/80**

Segment: **REF** **Reference Identification - Current Budget Billing Status**
Position: 030
Loop: LIN Optional (Must Use)
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification NR Progress Payment Number The enrolling customer is on budget billing.	**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 N The enrolling customer is not on budget billing. Y The enrolling customer is, or will be, on budget billing.	**X**	**AN 1/30**

Segment: **REF** **Reference Identification - No ICAP Tag**
Position: 030
Loop: LIN Optional (Must Use)
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification KC Exhibit Distribution List Capacity obligation/Load responsibility - Peak Load contribution provided to the ISO for installed Capacity Obligations.	**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 Literal "NO ICAP TAG" The REF*KC segment will only be sent if the ICAP Tag value in the Application file is blank. (A default value of Zero will be entered in the AMT Segments AMT02 element.)	**X AN 1/30**

Segment: **REF** **Reference Identification - Special Meter Configuration**
Position: 035
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Not used by NSTAR (see REFPRT). Not used by WMECO

Example: REF*KY*NETMETER

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification KY Site Specific Procedures, Terms, and Conditions Special Meter Configuration	**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 NETMETER Net Metering Present	**X**	**AN 1/30**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content	**O**	**AN 1/80**

Segment: **REF** **Reference Identification - Load Asset Identfier**
Position: 038
Loop: LIN Optional (Must Use)
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: Optional. Sent by Eversource West
REF*1J*17777

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 1J Facility ID Number Load Asset Identifier	**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 Load Asset Identifier assigned to Supplier by ISO New England	**X**	**AN 1/30**

Segment: **DTM** **Date/Time Reference - Effective**
Position: 040
Loop: LIN Optional (Must Use)
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: DTM06 should include only the date, not the time.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 007 Effective Date upon which an addition, change, or deletion is requested to become effective or will become effective.	**M ID 3/3**
>>	**DTM05**	**1250**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	**X ID 2/3**
>>	**DTM06**	**1251**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times Effective Date of Service in CCYYMMDD format only.	**X AN 1/35**

Segment: **AMT** **Monetary Amount - Sales Tax**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount DP Exemption This code is used when a portion of the provided service is exempt from taxation. Element AMT02 identifies the percentage of the service that is tax exempt. T Tax This code used to identify the entire load as taxable.	**M ID 1/3**
M	**AMT02**	**782**	**Monetary Amount** Monetary amount For percentage values, the whole number "1" represents 100 percent. Decimal numbers less than "1" represent percentages from 1 percent to 99.99 percent. 1 100 percent This code is used when the customer is either 100% taxable or 100% exempt.	**M R 1/18**

Segment: **AMT** **Monetary Amount - ICAP Tag**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: This segment is used to convey meter level information. Only NM101 and NM102 are required.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount KC Obligated An amount a party has an obligation to pay upon a successful performance by another party, (e.g., funds obligated on a contract) Capacity Obligation - Load responsibility - Peak load contribution provided to the ISO for installed Capacity Obligations.	**M ID 1/3**
M	**AMT02**	**782**	**Monetary Amount** Monetary Amount ICAP TAG VALUE (Should never be blank. If the ICAP TAG Application file field is blank the default will be zero for this field, otherwise, it will either be zero or greater). Field format is 5.3 or 5 places to the left of the decimal and 3 places to the right of the decimal.) (To determine if a zero in this field is the ICAP TAG or the default value refer to the REF*KC segment REF02 element description).	**M R 1/18**

Segment: **AMT** **Monetary Amount - Supplier Fixed Charge**
Position: 068
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Used by Eversource as part of Omni system.
Not used by NGRID, Unitil, Liberty.
ESP - LDC Request: Optional
ESP - LDC Response: Optional
This segment is sent by the Supplier when the customer's bill option is Rate Ready consolidated billing and the Supplier wants to bill the customer for a fixed charge amount in addition to the rate per kwh (REF*PR).
AMT~FW~2.00
AMT~FW~10
AMT~FW~0

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount FW Flat Fee Paid Current Month AMT02 contains the fixed charge amount that should be billed to the Supplier's customers expressed as a monetary amount.	**M ID 1/3**
M	**AMT02**	**782**	**Monetary Amount** Monetary amount This element is a real number. See Front Matter Notes regarding the syntax for real numbers.	**M R 1/18**

Segment: **NM1** **Individual or Organizational Name**
Position: 080
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: This segment is used to convey meter level information. Only NM101 and NM102 are required.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**NM101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location	**M ID 2/3**
M	**NM102**	**1065**	**Entity Type Qualifier** Code qualifying the type of entity 3 Unknown Placeholder field only.	**M ID 1/1**

Segment: **REF** **Reference Identification - Old Service Identifier**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 46 Old Meter Number Identifies meters being removed Identifies the customers' old specific service.	**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 The reference identification could be an old meter number or other old service code or number.	**X AN 1/30**

Segment: **REF** **Reference Identification - Load Profile**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification LO Load Planning Number Load Profile	**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 Load Profile Code	**X AN 1/30**

Segment: **REF** **Reference Identification - Service Identifier**
Position: 130
Loop: NM1 Optional (Must Use)
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: Eversource West and Eversource North use this as the Service Account Identifier (SAID)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MG Meter Number Identifies a specific service.	**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 The reference identification could be a meter number or other service code or number	**X**	**AN 1/30**

Segment: **REF** **Reference Identification - Distribution Company Rate Code**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification NH Rate Card Number Rate Class or Tariff Identifier.	**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 Distribution Company Rate or Tariff Code.	**X AN 1/30**

Segment: **REF** **Reference Identification - Type of Service**
Position: 130
Loop: NM1 Optional (Must Use)
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PRT Product Type Identifies the type of service being provided to the customer.	**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 Used to identify the means by which service is provided to the customer. It may also Identify the type of metering installed or the type of unmetered service being provided to the customer. A Apply to All Services C Combined Service (Multiple Meters Billed as a Summary) D Metered Service Demand & kWh E Metered Service kWh F Metered Service TOU - Off Peak H Controlled Hot Water L Lighting Service N Non-Metered Service O Metered Service TOU - On Peak T Metered Service TOU	**X AN 1/30**
R	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content To indicate presence of Net Meter X Net Meter	**X AN 1/80**

Segment: **REF** **Reference Identification - Supplier Pricing Structure**
Position: 130
Loop: NM1 Optional (Must Use)
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: Northeast Utilities assumes the decimal is after the first digit. Not used by NStar because rate setup is done pre-enroll outside of EDI.

REF*PR*0973 = $0.973

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PR Price Quote Number Identifies a unit price category under a rate code for the customer.	**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 Unit pricing category code.	**X AN 1/30**

Segment: **REF** **Reference Identification - Supplier Rate Code**
Position: 130
Loop: NM1 Optional (Must Use)
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: Northeast Utilties expects CUS. NStar requires pre-enrollment rate setup.

REF*RB*CUS

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification RB Rate code number Identifies the Supplier Rate Class for this customer.	**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 Supplier Rate Class code.	**X AN 1/30**

Segment: **REF** **Reference Identification - Reject Reason**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 7G Data Quality Reject Reason Reject reasons associated with a reject status notification. Service Level Rejections	**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 A13 Other - (Ref03 required) Send email to MA EBT each time A13 is used for a new purpose See explanation in REF03 A83 Unauthorized or invalid action - (Invalid type of service indicator, REF*PRT) MNM Invalid Service Identifier PCI Price Code invalid W05 Requested Rate not found or not in effect on the requested date - (Rate Ready Only)	**X AN 1/30**
>>	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Used to further describe the status reason code sent in REF02. STATUS CODES Completion Status Code (C.S.C.) 100 Successful Enrollment Transaction Received 999 Errors on Transaction Account (A) and Service (S) Level Error Codes A 101 Invalid Detail Record Indicator A 102 Invalid Supplier Account Number A 103 Invalid Distribution Company Account Number A 104 Invalid Distribution Company Customer Name A 107 Invalid Billing Option S 109 Invalid Supplier Rate Code S 110 Invalid Supplier Pricing Option S 111 Invalid Type of Service Indicator S 112 Invalid Service Identifier	**X AN 1/80**

A	114	Invalid Sales Tax Indicator
A	153	Invalid Supplier Identifier
A	154	Invalid Distribution Company Identifier
A	164	Customer Already Enrolled
A	165	Supplier on Probation
S	166	Invalid Related Service Failed
A	167	Customer Already Enrolled for Same Supplier
A	170	Invalid Public Aggregator Code
A	177	Invalid Customer Status

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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M**	**N0 1/10**
M	**SE02**	**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**

MASSACHUSETTS Electronic Business Transactions Standard

For

Electronic Data Interchange

TRANSACTION SET

814

Historical Request, Rejection Response

Ver/Rel 004010

	Summary of Changes
August 2, 1999	• Initial Release – Version 99.1
April 15, 2002	• Added REF*LO Segment for Load Profile Codes • Added REF*TD Segments Reason for Change in the LIN and NM1 loops. • Sequenced the Segments to agree with the UIG Guides • Added Status reason code tables to REF*7G Segment • Added/or changes some data element descriptions for clarification • Removed REF*RB REF02 element table description that didn't pertain to MA
June 30, 2004	• Added Service Address N3 and N4 segments for MOVE transaction. • Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element. • Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only. • Added Dun's + 4 capability for Suppliers to use on the N1*SJ Segment. • Dropped the requirement for the mandatory 4 character name on the N1*8R segment for Commercial and Industrial Accounts only. • Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.
June 27, 2006	• Added Green-Up program for National Grid's MA and RI Customers. • This included a DTM and an additional REF*PR segments. • Added Budget Billing notification REF segment. REF*NR indicates if a customer is on a budget billing plan or not. It is a Y / N field. • Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added. • A REF*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment. • A REF*TD*KC has been added to the reason for change segment and an AMT segment to carry the ICAP VALUE.

	(Remember that an ICAP VALUE can be zero as a valid value. This is why we needed to add a REF*KC segment to tell folks when the zero value is actually blank or no value.
July 6, 2011	• Add new REF1P segment with REF02 values for use in 814 Drop requests o REF02 Code:'020', REF03 Description: 'Customer Moved / Account Closed' o REF02 Code:'CHA', REF03 Description: 'Customer Changed to Another Service Provider' o REF02 Code: 'B38', REF03 Description: 'Customer Return to Standard Service' o REF02 Code: 'A13', REF03 Description: 'Other: [detailed description required]' • Add new LDC initiated Reinstatement (Cancel Drop) transaction. Update notes/usage for ASI01, ASI02, BGN13, LIN02, DTM007 o BGN01 13: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier" o LIN02 SH: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier" o ASI01 07: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier" o ASI02: Update 025 to include Distribution Company to Supplier "Reinstate customer to incumbent supplier" o DTM007: Effective Date to be included in transaction (under discussion by utilities) – date of next meter read as sent on the drop that this transaction is cancelling.
January 14, 2015	• Separated into own document. • Added REF03 to REF*PRT for Net Meter Indicator
November 4, 2015 Version 2.0	• Final Release
January 31, 2024 Version 2.1	• Incorporated CC 026 o clarify the requirements for the N101 value for the N1*8R segment • Incorporated CC 033 o to codify using either the BGN02 or BGN06 to send back the requests Reference Identification in the 814 Response

814 General Request, Response or Confirmation

Functional Group ID=GE

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	ST	Transaction Set Header	M	1	
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Distribution Company	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Supplier	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Customer	O	1	
	060	N3	Address Information	O	2	
	070	N4	Geographic Location	O	1	

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
			LOOP ID - LIN			1
Must Use	010	LIN	Item Identification	O	1	
Must Use	020	ASI	Action or Status Indicator	O	1	
Must Use	030	REF	Reference Identification - Supplier Account Number	O	1	
Must Use	030	REF	Reference Identification - Distribution Account Number	O	1	
	030	REF	Reference Identification - Rejection Reason	O	>1	
			LOOP ID - NM1			>1
Must Use	080	NM1	Individual or Organizational Name	O	1	
	130	REF	Reference Identification - Service Identifier	O	1	
	130	REF	Reference Identification - Reject Reason	O	>1	
M	150	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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	**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 Unique number generated by Sender's Translator	**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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BGN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 11 Response Distribution Company to Supplier Historical Usage Request Error 13 Request Supplier to Distribution Company Historical Usage Request	**M ID 2/2**
M	**BGN02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Request: Unique Tracking Identification Number assigned by the Senders application interface Response: The BGN02 from the originating BGN02 814 Request Or 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. The identification number must be unique over time. In this case, the BGN06 will be used to convey The BGN02 from the originating BGN02 814 Request.	**M AN 1/30**
M	**BGN03**	**373**	**Date** Date expressed as CCYYMMDD The transaction creation date. This is the date that the transaction was created by the sender's application system.	**M DT 8/8**
	BGN06	**127**	**Reference Identification**	**O AN 1/30**

	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier
	Unique Tracking Identification Number sent with the originating transaction. If not contained in the BGN02

Segment: **N1** **Name - Distribution Company**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Distribution Company	**M ID 2/3**
	N102	**93**	**Name** Free-form name Distribution Company Name (Text)	**X AN 1/60**
>>	**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	**X ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Distribution Company D-U-N-S Number	**X AN 2/80**

Segment: **N1** **Name - Supplier**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered Supplier	**M ID 2/3**
	N102	**93**	**Name** Free-form name Supplier Name (Text)	**X AN 1/60**
>>	**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	**X ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Supplier D-U-N-S Number	**X AN 2/80**

Segment: **N1** **Name - Customer**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8R Consumer Service Provider (CSP) Customer Customer	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Distribution Company Customer Name Key Required for Residential customers only. This field will contain the first four characters of the Customers' last name as it appears on the bill.	**X AN 1/60**

Segment: **N3** **Address Information**
Position: 060
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 070
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	**19**	**City Name** Free-form text for city name	**O**	**AN 2/30**
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O**	**ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O**	**ID 3/15**
N404	**26**	**Country Code** Code identifying the country	**O**	**ID 2/3**
N405	**309**	**Location Qualifier** Code identifying type of location CO County/Parish and State	**X**	**ID 1/2**
N406	**310**	**Location Identifier** Code which identifies a specific location	**O**	**AN 1/30**

Segment: **LIN** **Item Identification**
Position: 010
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
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.
Semantic Notes:
1 LIN01 is the line item identification
Comments:
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.
Notes: Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**LIN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set A unique sequential number for each line item within this transaction set.	**O**	**AN 1/20**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested A numeric or alphanumeric code from a list of services available to the customer Supplier to Distribution Company Historical Usage Request SV Service Rendered Distribution Company to Supplier Historical Usage Request Error Response	**M**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service EL Electric Service Indicates a customer request to obtain electric service.	**M**	**AN 1/48**
>>	**LIN04**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	**X**	**ID 2/2**

			SH	Service Requested A numeric or alphanumeric code from a list of services available to the customer		
>>	**LIN05**	**234**	**Product/Service ID** Identifying number for a product or service		**X**	**AN 1/48**
			HU	Historical Usage Indicates an ESP request to obtain historical usage information for this customer. This information would be returned on an EDI 867 Transaction Set.		

Segment: **ASI** **Action or Status Indicator**
Position: 020
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ASI01**	**306**	**Action Code** Code indicating type of action 7 Request Supplier To Distribution Company: Historical Usage Request U Reject Inability to accept for processing due to the lack of required information Distribution Company To Supplier: Error Response	**M ID 1/2**
M	**ASI02**	**875**	**Maintenance Type Code** Code identifying the specific type of item maintenance 066 Status Request A status request asks for current claim information for the purposes of compliance, audit, or other claim assessment function Supplier To Distribution Company: Historical Usage Request Distribution Company To Supplier: Historical Usage Error Response	**M ID 3/3**

Segment: **REF** **Reference Identification - Supplier Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Supplier	**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 Supplier Account Number for the end use customer.	**X AN 1/30**

Segment: **REF** **Reference Identification - Distribution Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Distribution Company	**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 Distribution Company - assigned end use customer account number.	**X AN 1/30**

Segment: **REF** **Reference Identification - Rejection Reason**
Position: 030
Loop: LIN Optional (Must Use)
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 convention of the REF segment is used primarily to convey status reason codes in response to a Request.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 7G Data Quality Reject Reason Reject reasons associated with a reject status notification.	**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 The following codes have been identified by the UIG to convey status reason codes. Other codes may be used by agreement of the trading partners when necessary. A13 Other	**X AN 1/30**
R	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Used to further describe the status reason code sent in REF02. STATUS CODES Completion Status Code (C.S.C.) 999 Errors on Transaction Account (A) and Service (S) Level Error Codes A 101 Invalid Detail Record Indicator A 102 Invalid Supplier Account Number A 103 Invalid Distribution Company Account Number A 104 Invalid Distribution Company Customer Name A 153 Invalid Supplier Identifier A 154 Invalid Distribution Company Identifier A 165 Supplier on Probation S 166 Invalid Related Service Failed A 178 No Customer History Available	**X AN 1/80**

Segment: **NM1** **Individual or Organizational Name**
Position: 080
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: This segment is used to convey meter level information. Only NM101 and NM102 are required.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**NM101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location	**M ID 2/3**
M	**NM102**	**1065**	**Entity Type Qualifier** Code qualifying the type of entity 3 Unknown Placeholder field only.	**M ID 1/1**

Segment: **REF** **Reference Identification - Service Identifier**
Position: 130
Loop: NM1 Optional (Must Use)
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: Eversource West and North used this as the Service Agreement Identifier (SAID)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MG Meter Number Identifies a specific service.	**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 The reference identification could be a meter number or other service code or number	**X AN 1/30**

Segment: **REF** **Reference Identification - Reject Reason**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 7G Data Quality Reject Reason Reject reasons associated with a reject status notification.	**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 A13 Other See explanation in REF03	**X AN 1/30**
R	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Used to further describe the status reason code sent in REF02. STATUS CODES Completion Status Code (C.S.C.) 999 Errors on Transaction Account (A) and Service (S) Level Error Codes A 101 Invalid Detail Record Indicator A 102 Invalid Supplier Account Number A 103 Invalid Distribution Company Account Number A 104 Invalid Distribution Company Customer Name S 111 Invalid Type of Service Indicator S 112 Invalid Service Identifier A 153 Invalid Supplier Identifier A 154 Invalid Distribution Company Identifier A 165 Supplier on Probation S 166 Invalid Related Service Failed A 178 No Customer History Available	**X AN 1/80**

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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
M	**SE02**	**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**

MASSACHUSETTS Electronic Business Transactions Standard

For

Electronic Data Interchange

TRANSACTION SET

814

Seamless Move Request

Ver/Rel 004010

	Summary of Changes
August 2, 1999	Initial Release – Version 99.1
April 15, 2002	• Added REF*LO Segment for Load Profile Codes • Added REF*TD Segments Reason for Change in the LIN and NM1 loops. • Sequenced the Segments to agree with the UIG Guides • Added Status reason code tables to REF*7G Segment • Added/or changes some data element descriptions for clarification • Removed REF*RB REF02 element table description that didn't pertain to MA
June 30, 2004	• Added Service Address N3 and N4 segments for MOVE transaction. • Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element. • Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only. • Added Dun's + 4 capability for Suppliers to use on the N1*SJ Segment. • Dropped the requirement for the mandatory 4 character name on the N1*8R segment for Commercial and Industrial Accounts only. • Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.
June 27, 2006	• Added Green-Up program for National Grid's MA and RI Customers. • This included a DTM and an additional REF*PR segments. • Added Budget Billing notification REF segment. REF*NR indicates if a customer is on a budget billing plan or not. It is a Y / N field. • Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added. • A REF*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment. • A REF*TD*KC has been added to the reason for change segment and an AMT segment to carry the ICAP VALUE. (Remember that an ICAP VALUE can be zero as a valid

	value. This is why we needed to add a REF*KC segment to tell folks when the zero value is actually blank or no value.
July 6, 2011	• Add new REF1P segment with REF02 values for use in 814 Drop requests 1. REF02 Code:'020', REF03 Description: 'Customer Moved / Account Closed' 2. REF02 Code:'CHA', REF03 Description: 'Customer Changed to Another Service Provider' 3. REF02 Code: 'B38', REF03 Description: 'Customer Return to Standard Service' 4. REF02 Code: 'A13', REF03 Description: 'Other: [detailed description required]' • Add new LDC initiated Reinstatement (Cancel Drop) transaction. Update notes/usage for ASI01, ASI02, BGN13, LIN02, DTM007 1. BGN01 13: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier" 2. LIN02 SH: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier" 3. ASI01 07: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier" 4. ASI02: Update 025 to include Distribution Company to Supplier "Reinstate customer to incumbent supplier" 5. DTM007: Effective Date to be included in transaction (under discussion by utilities) – date of next meter read as sent on the drop that this transaction is cancelling.
January 22, 2015	• Separated into own document
November 4, 2015 Version 2.0	• Final Release
January 31, 2024 Version 2.1	• Incorporated CC 026 o clarify the requirements for the N101 value for the N1*8R segment

814 General Request, Response or Confirmation

Functional Group ID=GE

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	ST	Transaction Set Header	M	1	
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Distribution Company	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Supplier	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Customer	O	1	
	060	N3	Address Information	O	2	
	070	N4	Geographic Location	O	1	
			LOOP ID - N1			1
	040	N1	Name - Bill To Identifier	O	1	
	060	N3	Address Information	O	1	
	070	N4	Geographic Location	O	1	
			LOOP ID - N1			1
	040	N1	Name - Old Customer Name	O	1	

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
			LOOP ID - LIN			1
Must Use	010	LIN	Item Identification	O	1	
Must Use	020	ASI	Action or Status Indicator	O	1	
Must Use	030	REF	Reference Identification - Supplier Account Number	O	1	
Must Use	030	REF	Reference Identification - Distribution Account Number	O	1	
	030	REF	Reference Identification - Old Distribution Co. Acct Number	O	1	
	030	REF	Reference Identification - Billing Cycle	O	1	
Must Use	030	REF	Reference Identification - Billing Option	O	1	
	030	REF	Reference Identification - Public Aggregator	O	1	
	030	REF	Reference Identification - Standard Point Location	O	1	
	035	REF	Reference Identification - Current Budget Billing Status	O	1	
	040	DTM	Date/Time Reference - Effective	O	1	
	060	AMT	Monetary Amount - Sales Tax	O	1	

	060	AMT	Monetary Amount - ICAP Tag	O	1	
			LOOP ID - NM1			>1
Must Use	080	NM1	Individual or Organizational Name	O	1	
	130	REF	Reference Identification - Old Service Identifier	O	1	
	130	REF	Reference Identification - Load Profile	O	1	
	130	REF	Reference Identification - Service Identifier	O	1	
	130	REF	Reference Identification - Distribution Company Rate Code	O	1	
	130	REF	Reference Identification - Type of Service	O	1	
	130	REF	Reference Identification - Supplier Pricing Structure	O	1	
	130	REF	Reference Identification - Supplier Rate Code	O	1	
M	150	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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	**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 Unique number generated by Sender's Translator	**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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BGN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 14 Advance Notification Distribution Company to Supplier Customer Move	**M ID 2/2**
M	**BGN02**	**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. The identification number must be unique over time.	**M AN 1/30**
M	**BGN03**	**373**	**Date** Date expressed as CCYYMMDD The transaction creation date. This is the date that the transaction was created by the sender's application system.	**M DT 8/8**

Segment: **N1** **Name - Distribution Company**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Distribution Company	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name Distribution Company Name (Text)	**X**	**AN 1/60**
>>	**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	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Distribution Company D-U-N-S Number	**X**	**AN 2/80**

Segment: **N1** **Name - Supplier**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered Supplier	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name Supplier Name (Text)	**X**	**AN 1/60**
>>	**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	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Supplier D-U-N-S Number	**X**	**AN 2/80**

Segment: **N1** **Name - Customer**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8R Consumer Service Provider (CSP) Customer Customer	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Distribution Company Customer Name Key Required for Residential customers only. This field will contain the first four characters of the Customers' last name as it appears on the bill.	**X AN 1/60**

Segment: **N3** **Address Information**
Position: 060
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 070
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	**19**	**City Name** Free-form text for city name	**O**	**AN 2/30**
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O**	**ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O**	**ID 3/15**
N404	**26**	**Country Code** Code identifying the country	**O**	**ID 2/3**
N405	**309**	**Location Qualifier** Code identifying type of location CO County/Parish and State	**X**	**ID 1/2**
N406	**310**	**Location Identifier** Code which identifies a specific location	**O**	**AN 1/30**

Segment: **N1** **Name - 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.

Data Element Summary

	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			
			BT	Bill-to-Party		
				Used to identify a billing address for the customer associated with the service account identified in the NM1/REF segment.		
>>	**N102**	**93**	**Name**		**X**	**AN 1/60**
			Free-form name			
			NV	No Value		

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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information Bill To Address	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information Additional Address Information	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	**19**	**City Name** Free-form text for city name Bill To City Name	**O AN 2/30**
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency Bill To State Code	**O ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States) Bill To Postal Code	**O ID 3/15**
N404	**26**	**Country Code** Code identifying the country Bill To Country Code (i.e. USA)	**O ID 2/3**

Segment: **N1** **Name - Old Customer Name**
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual AO Account Of Used to identify the former name or service address for the current end use customer. Used when the customer name or written service address has changed. The new, replacement name or address will be qualified by 8R.	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Former Account Customer Name For Residential customers, the field will contain the first four characters of the Customers' last name as it appears on the bill. For Commercial and Industrial customers, this field will contain the first four characters of the Company name as it appears on the bill.	**X AN 1/60**

Segment: **LIN** **Item Identification**
Position: 010
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
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.
Semantic Notes:
1 LIN01 is the line item identification
Comments:
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.
Notes: Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**LIN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set A unique sequential number for each line item within this transaction set.	**O**	**AN 1/20**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered Distribution Company to Supplier Customer Move	**M**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service EL Electric Service Indicates a customer request to obtain electric service.	**M**	**AN 1/48**
>>	**LIN04**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested A numeric or alphanumeric code from a list of services available to the customer	**X**	**ID 2/2**
>>	**LIN05**	**234**	**Product/Service ID**	**X**	**AN 1/48**

Identifying number for a product or service

CE	Customer Enrollment

Segment: **ASI** **Action or Status Indicator**
Position: 020
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**ASI01**	**306**	**Action Code**		**M ID 1/2**
			Code indicating type of action		
			27	Moved - Follow Up	
				Distribution Company To Supplier: Used to designate a seamless transfer of ESP when a customer moves within a Utility's service territory.	
M	**ASI02**	**875**	**Maintenance Type Code**		**M ID 3/3**
			Code identifying the specific type of item maintenance		
			025	Reinstatement	
				To place in force again, without the usual probationary or service period, a group contract or an individual's group insurance that for some reason has terminated	
				To place in force again, without the usual probationary or service period. Distribution Company To Supplier: Customer Move	

Segment: **REF** **Reference Identification - Supplier Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Supplier	**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 Supplier Account Number for the end use customer.	**X AN 1/30**

Segment: **REF** **Reference Identification - Distribution Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Distribution Company	**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 Distribution Company - assigned end use customer account number.	**X AN 1/30**

Segment: **REF** **Reference Identification - Old Distribution Co. Acct Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 45 Old Account Number Identifies accounts being changed Distribution Company	**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 Distribution Company - Old Account Number for the end use customer.	**X AN 1/30**

Segment: **REF** **Reference Identification - Billing Cycle**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BF Billing Center Identification Billing cycle.	**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 Billing cycle number when the bill will be rendered.	**X AN 1/30**

Segment: **REF** **Reference Identification - Billing Option**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BLT Billing Type Identifies whether the bill is consolidated by the LDC or whether each party will prepare their own bill. See REF02 for valid values.	**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 LDC The Distribution Company bills the customer for both the distribution company and supplier charges. (Complete Billing) DUAL The Distribution Company and the Supplier bill the customer their own charges with separate bills. (Pass thru Billing)	**X AN 1/30**

Segment: **REF** **Reference Identification - Public Aggregator**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Identifies a public or private group that aggregates customers and contracts load on their behalf. PG Product Group Aggregator Code	**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 Aggregator Code	**X AN 1/30**

Segment: **REF** **Reference Identification - Standard Point Location**
Position: 030
Loop: LIN Optional (Must Use)
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: The Independent System Operator for New England (ISO-NE) has established 8 zonal areas within New England Power Pool in support of FERC's Standard Market Design rules. Each customer will be associated to a zone within the ISO as determined by the Local Distribution Company. Energy will be delivered to these zones, for customers within the zone, by their energy suppliers. The zone is a new attribute of a customer's account that needs to be provided to the Energy Supplier to enable them to manage their supply.

The zone would be issued on a MOVE transaction.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification SPL Standard Point Location Code (SPLC) Standard Point Location Code (SPLC) Point at which the customer is connected to the transmission grid (ISO NE Zone). This represents the Wholesale Settlement Zone.	**M ID 2/3**
>>	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content SO NE ZONES: NEMASSBOST NEWHAMPSHIRE RHODEISLAND SEMASS WCMASS	**X AN 1/80**

Segment: **REF** **Reference Identification - Current Budget Billing Status**
Position: 035
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			Code qualifying the Reference Identification			
			NR	Progress Payment Number		
				The customer is on budget billing		
	REF02	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			N	The customer is not on budget billing		
			Y	The customer is on budget billing		

Segment: **DTM** **Date/Time Reference - Effective**
Position: 040
Loop: LIN Optional (Must Use)
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: To specify a time zone (DTM04), both DTM03 and DTM04 must be present. Therefore, if specification of a time zone is necessary, DTM06 should include only the date, not the time.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 007 Effective Date upon which an addition, change, or deletion is requested to become effective or will become effective.	**M ID 3/3**
>>	**DTM05**	**1250**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	**X ID 2/3**
>>	**DTM06**	**1251**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times Effective Date of Service in CCYYMMDD format only.	**X AN 1/35**

Segment: **AMT** **Monetary Amount - Sales Tax**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount DP Exemption This code is used when a portion of the provided service is exempt from taxation. Element AMT02 identifies the percentage of the service that is tax exempt. T Tax This code used to identify the entire load as taxable.	**M ID 1/3**
M	**AMT02**	**782**	**Monetary Amount** Monetary amount For percentage values, the whole number "1" represents 100 percent. Decimal numbers less than "1" represent percentages from 1 percent to 99.99 percent. 1 100 percent This code is used when the customer is either 100% taxable or 100% exempt.	**M R 1/18**

Segment: **AMT** **Monetary Amount - ICAP Tag**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount KC Obligated An amount a party has an obligation to pay upon a successful performance by another party, (e.g., funds obligated on a contract) Capacity Obligation - Load responsibility - Peak load contribution provided to the ISO for installed Capacity Obligations.	**M ID 1/3**
M	**AMT02**	**782**	**Monetary Amount** Monetary amount Monetary Amount ICAP TAG VALUE (Should never be blank. If the ICAP TAG Application file field is blank the default will be zero for this field, otherwise, it will either be zero or greater). Field format is 5.3 or 5 places to the left of the decimal and 3 places to the right of the decimal.) (To determine if a zero in this field is the ICAP TAG or the default value refer to the REF*KC segment REF02 element description).	**M R 1/18**

Segment: **NM1** **Individual or Organizational Name**
Position: 080
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: This segment is used to convey meter level information. Only NM101 and NM102 are required.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**NM101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location	**M ID 2/3**
M	**NM102**	**1065**	**Entity Type Qualifier** Code qualifying the type of entity 3 Unknown Placeholder field only.	**M ID 1/1**

Segment: **REF** **Reference Identification - Old Service Identifier**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 46 Old Meter Number Identifies meters being removed Identifies the customers' old specific service.	**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 The reference identification could be an old meter number or other old service code or number.	**X AN 1/30**

Segment: **REF** **Reference Identification - Load Profile**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification LO Load Planning Number Load Profile	**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 Load Profile Code	**X AN 1/30**

Segment: **REF** **Reference Identification - Service Identifier**
Position: 130
Loop: NM1 Optional (Must Use)
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: Eversource West and North use this as the Service Account Identifier (SAIID)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MG Meter Number Identifies a specific service.	**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 The reference identification could be a meter number or other service code or number	**X AN 1/30**

Segment: **REF** **Reference Identification - Distribution Company Rate Code**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification NH Rate Card Number Rate Class or Tariff Identifier.	**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 Distribution Company Rate or Tariff Code.	**X AN 1/30**

Segment: **REF** **Reference Identification - Type of Service**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PRT Product Type Identifies the type of service being provided to the customer.	**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 Used to identify the means by which service is provided to the customer. It may also Identify the type of metering installed or the type of unmetered service being provided to the customer. Available Values are: A = Apply to All Services C = Combined Service (Multiple Meters Billed as a Summary) D = Metered Service Demand & kWh E = Metered Service kWh F = Metered Service TOU - Off Peak H = Controlled Hot Water L = Lighting Service N = Non-Metered Service O = Metered Service TOU - On Peak T = Metered Service TOU	**X AN 1/30**

Segment: **REF** **Reference Identification - Supplier Pricing Structure**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PR Price Quote Number Identifies a unit price category under a rate code for the customer.	**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 Unit pricing category code.	**X AN 1/30**

Segment: **REF** **Reference Identification - Supplier Rate Code**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification RB Rate code number Identifies the Supplier Rate Class for this customer.	**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 Supplier Rate Class code.	**X AN 1/30**

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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
M	**SE02**	**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**

MASSACHUSETTS Electronic Business Transactions Standard

For

Electronic Data Interchange

TRANSACTION SET

814

Reinstatement Request, Response or Confirmation

Ver/Rel 004010

	Summary of Changes
August 2, 1999	• Initial Release – Version 99.1
April 15, 2002	• Added REF*LO Segment for Load Profile Codes • Added REF*TD Segments Reason for Change in the LIN and NM1 loops. • Sequenced the Segments to agree with the UIG Guides • Added Status reason code tables to REF*7G Segment • Added/or changes some data element descriptions for clarification • Removed REF*RB REF02 element table description that didn't pertain to MA
June 30, 2004	• Added Service Address N3 and N4 segments for MOVE transaction. • Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element. • Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only. • Added Dun's + 4 capability for Suppliers to use on the N1*SJ Segment. • Dropped the requirement for the mandatory 4 character name on the N1*8R segment for Commercial and Industrial Accounts only. • Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.
June 27, 2006	• Added Green-Up program for National Grid's MA and RI Customers. • This included a DTM and an additional REF*PR segments. • Added Budget Billing notification REF segment. REF*NR indicates if a customer is on a budget billing plan or not. It is a Y / N field. • Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added. • A REF*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment. • A REF*TD*KC has been added to the reason for change

	segment and an AMT segment to carry the ICAP VALUE. (Remember that an ICAP VALUE can be zero as a valid value. This is why we needed to add a REF*KC segment to tell folks when the zero value is actually blank or no value.
July 6, 2011	• Add new REF1P segment with REF02 values for use in 814 Drop requests o REF02 Code:'020', REF03 Description: 'Customer Moved / Account Closed' o REF02 Code:'CHA', REF03 Description: 'Customer Changed to Another Service Provider' o REF02 Code: 'B38', REF03 Description: 'Customer Return to Standard Service' o REF02 Code: 'A13', REF03 Description: 'Other: [detailed description required]'
	• Add new LDC initiated Reinstatement (Cancel Drop) transaction. Update notes/usage for ASI01, ASI02, BGN13, LIN02, DTM007 o BGN01 13: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier" o LIN02 SH: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier" o ASI01 07: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier" o ASI02: Update 025 to include Distribution Company to Supplier "Reinstate customer to incumbent supplier" o DTM007: Effective Date to be included in transaction (under discussion by utilities) – date of next meter read as sent on the drop that this transaction is cancelling.
January 22, 2015 Version 1.0	• Separated into own document
November 4, 2015 Version 2.0	• Final release
January 30, 2024 Version 2.1	• Incorporated CC 019 o BGN01 13: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier" o LIN02 SH: Update to include under Distribution Company to Supplier "Reinstate customer to

incumbent supplier”
    - ASI01 07: Update to include under Distribution Company to Supplier “Reinstate customer to incumbent supplier”
    - ASI02: Update 025 to include Distribution Company to Supplier “Reinstate customer to incumbent supplier”
    - DTM007: Effective Date to be included in transaction (under discussion by utilities) – date of next meter read as sent on the drop that this transaction is cancelling.
- Incorporated CC 026
    - clarify the requirements for the N101 value for the N1*8R segment
- Incorporated CC 033
    - to codify using either the BGN02 or BGN06 to send back the requests Reference Identification in the 814 Response

814 General Request, Response or Confirmation

Functional Group ID=GE

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	ST	Transaction Set Header	M	1	
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Distribution Company	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Supplier	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Customer	O	1	
			LOOP ID - N1			1
	040	N1	Name - Bill To Identifier	O	1	
	060	N3	Address Information	O	1	
	070	N4	Geographic Location	O	1	

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
			LOOP ID - LIN			1
Must Use	010	LIN	Item Identification	O	1	
Must Use	020	ASI	Action or Status Indicator	O	1	
Must Use	030	REF	Reference Identification - Supplier Account Number	O	1	
Must Use	030	REF	Reference Identification - Distribution Account Number	O	1	
	030	REF	Reference Identification - Old Distribution Co. Acct Number	O	1	
	030	REF	Reference Identification - Billing Cycle	O	1	
Must Use	030	REF	Reference Identification - Billing Option	O	1	
	030	REF	Reference Identification - Status Reason	O	>1	
	035	REF	Reference Identification - Facitlity ID Number	O	1	
	038	REF	Reference Identification - Standard Point Location	O	1	
	039	REF	Reference Identification - Current Budget Billing Status	O	1	
	040	DTM	Date/Time Reference - Effective	O	1	
	060	AMT	Monetary Amount - Sales Tax	O	1	
			LOOP ID - NM1			>1
Must Use	080	NM1	Individual or Organizational Name	O	1	
	130	REF	Reference Identification - Old Service Identifier	O	1	
	130	REF	Reference Identification - Load Profile	O	1	

	130	REF	Reference Identification - Service Identifier	O	1	
	130	REF	Reference Identification - Distribution Company Rate Code	O	1	
	130	REF	Reference Identification - Type of Service	O	1	
	130	REF	Reference Identification - Supplier Pricing Structure	O	1	
	130	REF	Reference Identification - Supplier Rate Code	O	1	
	130	REF	Reference Identification - Reject Reason	O	>1	
M	150	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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmation	**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 Unique number generated by Sender's Translator	**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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BGN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 06 Confirmation Distribution company to Supplier Confirms Successful Reinstatement/ Drop cancelled 11 Response Distribution Company to Supplier Reinstatement Error response 13 Request Distribution Company to Supplier Reinstate customer to incumbent supplier Supplier to Distribution Company Cancel a drop	**M ID 2/2**
M	**BGN02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Request: Unique Tracking Identification Number assigned by the Senders application interface Response: The BGN02 from the originating BGN02 814 Request Or 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. The identification number must be unique over time. In this case, the BGN06 will be used to convey The BGN02 from the originating BGN02 814 Request.	**M AN 1/30**

M	**BGN03**	**373**	**Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		
			The transaction creation date. This is the date that the transaction was created by the sender's application system.		
	BGN06	**127**	**Reference Identification**	**O**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Unique Tracking Identification Number sent with the originating transaction. If not contained in the BGN02		

Segment: **N1** **Name - Distribution Company**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Distribution Company	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name Distribution Company Name (Text)	**X**	**AN 1/60**
>>	**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	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Distribution Company D-U-N-S Number	**X**	**AN 2/80**

Segment: **N1** **Name - Supplier**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered Supplier	**M ID 2/3**
	N102	**93**	**Name** Free-form name Supplier Name (Text)	**X AN 1/60**
>>	**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	**X ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code Supplier D-U-N-S Number	**X AN 2/80**

Segment: **N1** **Name - Customer**
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
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*JONE
N1*8R*TOWN

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8R Consumer Service Provider (CSP) Customer Customer	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name Distribution Company Customer Name Key Required for Residential customers only. This field will contain the first four characters of the Customers' last name as it appears on the bill.	**X AN 1/60**

Segment: **N1** **Name - 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.

Data Element Summary

	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			
			BT	Bill-to-Party		
				Used to identify a billing address for the customer associated with the service account identified in the NM1/REF segment.		
>>	**N102**	**93**	**Name**		**X**	**AN 1/60**
			Free-form name			
			NV	No Value		

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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information Bill To Address	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information Additional Address Information	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	**19**	**City Name**	**O**	**AN 2/30**
		Free-form text for city name		
		Bill To City Name		
N402	**156**	**State or Province Code**	**O**	**ID 2/2**
		Code (Standard State/Province) as defined by appropriate government agency		
		Bill To State Code		
N403	**116**	**Postal Code**	**O**	**ID 3/15**
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
		Bill To Postal Code		
N404	**26**	**Country Code**	**O**	**ID 2/3**
		Code identifying the country		
		Bill To Country Code (i.e. USA)		

Segment: **LIN** **Item Identification**
Position: 010
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
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.
Semantic Notes:
1 LIN01 is the line item identification
Comments:
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.
Notes: Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**LIN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set A unique sequential number for each line item within this transaction set.	**O AN 1/20**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SH Service Requested A numeric or alphanumeric code from a list of services available to the customer Distribution Company to Supplier Reinstate customer to incumbent supplier Supplier to Distribution Company Cancel a Drop SV Service Rendered Distribution Company to Supplier Successful Reinstatement Reinstatement Error Response	**M ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service	**M AN 1/48**

			EL	Electric Service Indicates a customer request to obtain electric service.		
>>	**LIN04**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234)		**X**	**ID 2/2**
			SH	Service Requested A numeric or alphanumeric code from a list of services available to the customer		

Segment: **ASI** **Action or Status Indicator**
Position: 020
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ASI01**	**306**	**Action Code** Code indicating type of action 7 Request Distribution Company To Supplier: Reinstate customer to incumbent supplier Supplier To Distribution Company: Cancel a drop U Reject Inability to accept for processing due to the lack of required information Distribution Company To Supplier: Error Response V Respond A reply or answer Distribution Company To Supplier: Confirm Reinstate Date WQ Accept Distribution Company To Supplier: Successful Reinstatement	**M ID 1/2**
M	**ASI02**	**875**	**Maintenance Type Code** Code identifying the specific type of item maintenance 025 Reinstatement To place in force again, without the usual probationary or service period, a group contract or an individual's group insurance that for some reason has terminated To place in force again, without the usual probationary or service period. Distribution Company To Supplier: Reinstate customer to incumbent supplier 026 Correction	**M ID 3/3**

Supplier to Distribution Company
Cancel a drop

Segment: **REF** **Reference Identification - Supplier Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Supplier	**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 Supplier Account Number for the end use customer.	**X AN 1/30**

Segment: **REF** **Reference Identification - Distribution Account Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Distribution Company	**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 Distribution Company - assigned end use customer account number.	**X AN 1/30**

Segment: **REF** **Reference Identification - Old Distribution Co. Acct Number**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 45 Old Account Number Identifies accounts being changed Distribution Company	**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 Distribution Company - Old Account Number for the end use customer.	**X AN 1/30**

Segment: **REF** **Reference Identification - Billing Cycle**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BF Billing Center Identification Billing cycle.	**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 Billing cycle number when the bill will be rendered.	**X AN 1/30**

Segment: **REF** **Reference Identification - Billing Option**
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BLT Billing Type Identifies whether the bill is consolidated by the LDC or whether each party will prepare their own bill. See REF02 for valid values.	**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 LDC The Distribution Company bills the customer for both the distribution company and supplier charges. (Complete Billing) DUAL The Distribution Company and the Supplier bill the customer their own charges with separate bills. (Pass thru Billing)	**X AN 1/30**

Segment: **REF** **Reference Identification - Status Reason**
Position: 030
Loop: LIN Optional (Must Use)
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 convention of the REF segment is used primarily to convey status reason codes in response to a Request.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 7G Data Quality Reject Reason Reject reasons associated with a reject status notification.	**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 The following codes have been identified by the UIG to convey status reason codes. Other codes may be used by agreement of the trading partners when necessary. A13 Other	**X AN 1/30**
>>	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Used to further describe the status reason code sent in REF02. STATUS CODES Completion Status Code (C.S.C.) 100 Successful Enrollment Transaction Received 999 Errors on Transaction Account (A) and Service (S) Level Error Codes A 101 Invalid Detail Record Indicator A 102 Invalid Supplier Account Number A 103 Invalid Distribution Company Account Number A 104 Invalid Distribution Company Customer Name A 107 Invalid Billing Option S 109 Invalid Supplier Rate Code S 110 Invalid Supplier Pricing Option S 111 Invalid Type of Service Indicator S 112 Invalid Service Identifier A 114 Invalid Sales Tax Indicator A 153 Invalid Supplier Identifier A 154 Invalid Distribution Company Identifier A 164 Customer Already Enrolled A 165 Supplier on Probation	**X AN 1/80**

S	166	Invalid Related Service Failed
A	167	Customer Already Enrolled for Same Supplier
A	170	Invalid Public Aggregator Code
A	177	Invalid Customer Status
A	178	No Customer History Available

Segment: **REF** **Reference Identification - Facitlity ID Number**
Position: 035
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 1J Facility ID 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**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content	**X**	**AN 1/80**

Segment: **REF** **Reference Identification - Standard Point Location**
Position: 038
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification SPL Standard Point Location Code (SPLC)	**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**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content	**X**	**AN 1/80**

Segment: **REF** **Reference Identification - Current Budget Billing Status**
Position: 039
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			Code qualifying the Reference Identification			
			NR	Progress Payment Number		
				The enrolling customer is on budget billing.		
	REF02	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			N	The enrolling customer is not on budget billing		
			Y	The enrolling customer is, or will be, on budget billing		
	REF03	**352**	**Description**		**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content			

Segment: **DTM** **Date/Time Reference - Effective**
Position: 040
Loop: LIN Optional (Must Use)
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: To specify a time zone (DTM04), both DTM03 and DTM04 must be present. Therefore, if specification of a time zone is necessary, DTM06 should include only the date, not the time.
Effective Date to be included in transaction (under discussion by utilities) – date of next meter read as sent on the drop that this transaction is cancelling

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 007 Effective Date upon which a reinstatement is to become effective or will become effective.	**M**	**ID 3/3**
>>	**DTM05**	**1250**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	**X**	**ID 2/3**
>>	**DTM06**	**1251**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times Effective Date of Service in CCYYMMDD format only.	**X**	**AN 1/35**

Segment: **AMT** **Monetary Amount - Sales Tax**
Position: 060
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount DP Exemption This code is used when a portion of the provided service is exempt from taxation. Element AMT02 identifies the percentage of the service that is tax exempt. T Tax This code used to identify the entire load as taxable.	**M ID 1/3**
M	**AMT02**	**782**	**Monetary Amount** Monetary amount For percentage values, the whole number "1" represents 100 percent. Decimal numbers less than "1" represent percentages from 1 percent to 99.99 percent. 1 100 percent This code is used when the customer is either 100% taxable or 100% exempt.	**M R 1/18**

Segment: **NM1** **Individual or Organizational Name**
Position: 080
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: This segment is used to convey meter level information. Only NM101 and NM102 are required.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**NM101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location	**M ID 2/3**
M	**NM102**	**1065**	**Entity Type Qualifier** Code qualifying the type of entity 3 Unknown Placeholder field only.	**M ID 1/1**

Segment: **REF** **Reference Identification - Old Service Identifier**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 46 Old Meter Number Identifies meters being removed Identifies the customers' old specific service.	**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 The reference identification could be an old meter number or other old service code or number.	**X AN 1/30**

Segment: **REF** **Reference Identification - Load Profile**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification LO Load Planning Number Load Profile	**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 Load Profile Code	**X AN 1/30**

Segment: **REF** **Reference Identification - Service Identifier**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MG Meter Number Identifies a specific service.	**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 The reference identification could be a meter number or other service code or number	**X AN 1/30**

Segment: **REF** **Reference Identification - Distribution Company Rate Code**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification NH Rate Card Number Rate Class or Tariff Identifier.	**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 Distribution Company Rate or Tariff Code.	**X AN 1/30**

Segment: **REF** **Reference Identification - Type of Service**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PRT Product Type Identifies the type of service being provided to the customer.	**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 Used to identify the means by which service is provided to the customer. It may also Identify the type of metering installed or the type of unmetered service being provided to the customer. Available Values are: A = Apply to All Services C = Combined Service (Multiple Meters Billed as a Summary) D = Metered Service Demand & kWh E = Metered Service kWh F = Metered Service TOU - Off Peak H = Controlled Hot Water L = Lighting Service N = Non-Metered Service O = Metered Service TOU - On Peak T = Metered Service TOU	**X AN 1/30**

Segment: **REF** **Reference Identification - Supplier Pricing Structure**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PR Price Quote Number Identifies a unit price category under a rate code for the customer.	**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 Unit pricing category code.	**X AN 1/30**

Segment: **REF** **Reference Identification - Supplier Rate Code**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification RB Rate code number Identifies the Supplier Rate Class for this customer.	**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 Supplier Rate Class code.	**X AN 1/30**

Segment: **REF** **Reference Identification - Reject Reason**
Position: 130
Loop: NM1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: **1** At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 7G Data Quality Reject Reason Reject reasons associated with a reject status notification.	**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 A13 Other See explanation in REF03	**X AN 1/30**
>>	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content Used to further describe the status reason code sent in REF02. STATUS CODES Completion Status Code (C.S.C.) 100 Successful Enrollment Transaction Received 999 Errors on Transaction Account (A) and Service (S) Level Error Codes A 101 Invalid Detail Record Indicator A 102 Invalid Supplier Account Number A 103 Invalid Distribution Company Account Number A 104 Invalid Distribution Company Customer Name A 107 Invalid Billing Option S 109 Invalid Supplier Rate Code S 110 Invalid Supplier Pricing Option S 111 Invalid Type of Service Indicator S 112 Invalid Service Identifier A 114 Invalid Sales Tax Indicator A 153 Invalid Supplier Identifier A 154 Invalid Distribution Company Identifier A 164 Customer Already Enrolled A 165 Supplier on Probation S 166 Invalid Related Service Failed A 167 Customer Already Enrolled for Same Supplier A 170 Invalid Public Aggregator Code	**X AN 1/80**

A	177	Invalid Customer Status
A	178	No Customer History Available

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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
M	**SE02**	**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**

Example transaction: LDC Initiated request

ST*814*000586192
BGN*13*201503041751464730 23*20150304
N1*8S*UTILITY*1*999999999
N1*SJ*ELECTRIC SUPPLIER*9*888888888
N1*8R*NAME
LIN*20150304175146473048*SV*EL*SH*CE
ASI*7*025
REF*11*2222222222
REF*12*1111111111
DTM*007****D8*20150304
NM1*MQ*3
SE*11*000586192

Massachusetts Electronic Business Transactions Standard

For

Electronic Data Interchange

TRANSACTION SET

820

Payment Order/Remittance Advice

Ver/Rel 004010

Outbound to Energy Supplier

Summary of Changes

March 29, 1999	• Initial Release – Version 99.1
July 14, 2004	• Added Dun's + 4 capability for Suppliers to use on the N1*SJ Segment.
December 4, 2012	• Administrative cleanup of notes for BPR, ENT, RMR, REF*IK, REF*11, DTM*809 • Removed BPR03 value D • Added N103 value of 9 for N1*SJ
September 4, 2013	• Added RMR03 PR for Purchase of Receivables • Updated RMR04 to Mandatory • Added RMR05 Invoiced Amount for Purchase of Receivables • Added RMR06 Discount Amount for Purchase of Receivables • Added RMR07 16 and 26 for Purchase of Receivables • Added REFIK for Invoice Number
May 5, 2014	• Minor corrections to REF02 codes for REFIK and REF11. Minor corrections to RMR05 and RMR06.
January 31, 2024 Version 3.3	• Incorporated CC 023 for Administrative cleanup o Eliminate "UIG" from footer: The organization no longer exists o Eliminate Best Practices section o BPR03 – remove D o BPR: Remove statement "Specific qualifiers used in data elements BPR01, BPR03, BPR04 and BPR05 need to be discussed and agreed upon between the originator and the originator's financial institution prior to using the transaction." o N103 for Supplier: Allow code "9" for DUNS+4 o RMR06: Remove statement, "must be preceded by a minus sign (-) unless it is zero." Also, at the end of that paragraph, change 00.0 to simply 0. o DTM*809: Indicate required for non-POR and not used for POR o N1*8S: changed to simply "Utility", Add a gray box to show "DUNS" o N1*SJ: changed to simply "ESP/Energy Service Provider",

Add a gray box to show "DUNS"
- ENT: only element used is the first. add gray box showing 1 is the only possible value
- RMR Notes: In all cases, RMR01 and RMR02 identify only the item or account in the receiving party's system to which the payment is to be applied. For example, the original invoice number for a vendor invoice or the account number for the end use customer.

- REF*IK: When RMR01 = 12 (Billing Account) this segment required for POR (where payment type = PR)
- REF*11: -simplified to ESP Account Number

- Incorporated CC 036
  - Add REF*MG to RMR loop for Meter Number. Used by Eversource for POD ID or SA ID.

820 Payment Order/Remittance Advice

Functional Group ID= **RA**

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	ST	Transaction Set Header	M	1	
M	020	BPR	Beginning Segment for Payment Order/Remittance Advice	M	1	
Must Use	050	REF	Reference Identification - Tracking number	O	1	
Must Use	060	DTM	Date/Time Reference - Creation	O	1	
			LOOP ID - N1			1
Must Use	070	N1	Name - Distribution Company	O	1	
			LOOP ID - N1			1
Must Use	070	N1	Name - Supplier	O	1	

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat

			LOOP ID - ENT			1
Must Use	010	ENT	Entity	O	1	
			LOOP ID - RMR			>1
Must Use	150	RMR	Remittance Advice Accounts Receivable Open Item Reference	O	1	
Must Use	170	REF	Reference Identification - Invoice Number	C	1	
	170	REF	Reference Identification - Commodity	O	1	
Must Use	170	REF	Reference Identification - Supplier Account	O	1	
	175	REF	Reference Identification - Service Indicator	O	1	
	180	DTM	Date/Time Reference - Posting	O	1	

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 820 Payment Order/Remittance 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: **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.

Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	BPR01	305	Transaction Handling Code Code designating the action to be taken by all parties I Remittance Information Only	M ID 1/2
M	BPR02	782	Monetary Amount Monetary amount Must be a positive amount.	M R 1/18
M	BPR03	478	Credit/Debit Flag Code Code indicating whether amount is a credit or debit C Credit Due Supplier	M ID 1/1
M	BPR04	591	Payment Method Code Code identifying the method for the movement of payment instructions ACH Automated Clearing House (ACH)	M ID 3/3
	BPR16	373	Date Date expressed as CCYYMMDD Payer's intended settlement date	O DT 8/8

Segment: **REF** Reference Identification - Tracking number
Position: 050
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification TN Transaction Reference 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

Segment: **DTM** Date/Time Reference - Creation
Position: 060
Loop:
Level: Heading
Usage: Optional (Must Use)
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 097 Transaction Creation	M ID 3/3
>>	DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	X ID 2/3
>>	DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

Segment: **N1** Name - Distribution Company
Position: 070
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
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: Utility

Data Element Summary

	Ref. Des.	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)	M ID 2/3
	N102	93	Name Free-form name	X AN 1/60
>>	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	X ID 1/2
>>	N104	67	Identification Code Code identifying a party or other code DUNS	X AN 2/80

Segment: **N1** Name - Supplier
Position: 070
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
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: ESP/Energy Service Provider

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered In the alternative energy supply environment, this is the Energy Service Provider.	M ID 2/3
	N102	93	Name Free-form name	X AN 1/60
>>	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	X ID 1/2
>>	N104	67	Identification Code Code identifying a party or other code DUNS	X AN 2/80

Segment: **ENT** Entity
Position: 010
Loop: ENT Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To designate the entities which are parties to a transaction and specify a reference meaningful to those entities
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

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

Segment: **RMR** Remittance Advice Accounts Receivable Open Item Reference
Position: 150
Loop: RMR Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: In all cases, RMR01 and RMR02 identify only the item or account in the receiving party's system to which the payment is to be applied. For example, the original invoice number for a vendor invoice or the account number for the end use customer.

Examples:
RMR*12*7799621539*PO*300.00
RMR*12*6687714411*PR*98.00*100.00*2.00
RMR*12*3965716927*AJ*-95.00***CS*-95.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	RMR01	128	Reference Identification Qualifier Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Utility-assigned account number for end use customer.	X ID 2/3
>>	RMR02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
>>	RMR03	482	Payment Action Code Code specifying the accounts receivable open item(s), if any, to be included in the cash application. AJ Adjustment Adjustment of a previous payment. PO Payment on Account PR Progress Payment	O ID 2/2

Purchased Receivables Only
The amount in RMR04 is the net amount of the customer receivable being purchased by the billing party for the customer account indicated in RMR02 and should equal the cash remitted in the banking transaction.

RMR03 should be populated with 'AJ' (not PR) if the amount in RMR04 is an adjustment to an amount remitted in a prior period for purchased receivables.

M	RMR04	782	Line Item Amount Monetary amount	M	R 1/18
			The amount paid or adjusted. This amount is algebraically summed to BPR02.		
	RMR05	782	Invoiced Amount Monetary amount	O	R 1/18
			Invoiced Amount This element is required when the remittance is for purchase of a customer receivable (RMR01=12 and RMR03=PR); otherwise this element is not used. The amount in RMR05 is the total amount (debit or credit) billed to the customer for E/M charges (energy charges and taxes) for the current period. This amount should equal the amount sent in the TDS segment of the 810 Invoice identified in the REF*IK for the customer account indicated in RMR02. This data element is a real number. Real numbers are assumed to be positive numbers and a minus (-) sign must precede the amount when a negative number is being sent. Real numbers do NOT provide for an implied decimal position; a decimal point must be sent when decimal precision is required. When transmitting a real number it is not necessary, but is acceptable, to transmit insignificant digits such as leading and/or trailing zeros.		
	RMR06	782	Discount Amount Monetary amount	O	R 1/18
			Discount Amount The element is required when the remittance is for purchase of a customer receivable (RMR01=12 and RMR03=PR); otherwise this element is not used. RMR06 contains the amount of the discount applied to the current period invoiced amount (sent in RMR05). . If the invoice amount (or adjustment amount) is negative, then the discount amount is positive. RMR05 plus RMR06 should equal the amount sent in RMR04. Where there is no discount, RMR06 should contain 0. This data element is a real number. Real numbers are assumed to be positive numbers and a minus (-) sign must precede the amount when a negative number is being sent. Real numbers do NOT provide for an implied decimal position; a decimal point must be sent when decimal precision is required. When transmitting a real number it is not necessary, but is acceptable, to transmit insignificant digits such as leading and/or trailing zeros.		
	RMR07	426	Adjustment Reason Code Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment	X	ID 2/2

		Use any valid codes Data Element 426 codes, as mutually agreed between the trading partners.			
		16	Non-Invoice Related Allowance/Charge Purchased Receivables This code is used to adjust amounts previously transmitted for purchase of receivables (i.e. NOT related to the current period invoice for the customer account indicated in RMR02) that cannot by addressed by using codes 25, 26, 86, BD, FC or IF.		
		26	Invoice Cancelled Purchased Receivables This code is used to adjust amounts previously transmitted for purchase of receivables.		
		48	Service Charge		
			BAD CHECK		
		55	Tax Deducted		
			SALES TAX		
		BD	Bad Debt Adjustment		
			SUPPLIER WRITE-OFF		
		CS	Adjustment		
			ADJUSTMENT		
		D1	Transfer Between Accounts		
			TRANSFER		
		FI	Late Interest Paid		
			ARREARS INTEREST		
		IP	Incentive Premium Payment		
			LOW-INCOME DISBURSEMENT		
RMR08	782	Adjustment Amount Monetary amount		X	R 1/18
		The adjustment amount. This amount should be signed if negative. For an adjustment to this current payment, this amount is also in RMR04. For an adjustment without impacting payment, a 0 will be sent in the RMR04			

Segment: **REF** Reference Identification - Invoice Number
Position: 170
Loop: RMR Optional (Must Use)
Level: Detail
Usage: Conditional (Must Use)
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: Conditional
When RMR01 = 12 (Billing Account) this segment required for POR (where payment type = PR)

REF*IK*IN200207190001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification IK Invoice Number Manufacturer's invoice number for vehicle/component	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 The invoice number originally transmitted in the 810 - BIG02	X AN 1/30

Segment: **REF** Reference Identification - Commodity
Position: 170
Loop: RMR Optional (Must Use)
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: Optional

This segment may be sent to indicate the RMR04 amount pertains to electric commodity

REF*QY*EL

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification QY Service Provided Code REF02 is the commodity associated with the customer account sent in RMR02.	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

Segment: **REF** Reference Identification - Supplier Account
Position: 170
Loop: RMR Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: Supplier (ESP) Account Number

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Energy Service Provider-assigned account number for the end use customer.	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

Segment: **REF** Reference Identification - Service Indicator
Position: 175
Loop: RMR Optional (Must Use)
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: Conditional: Eversource North as Service Account Identifier in current system.
Required: Eversource as POD Id, in their new Omni system.

REF*MG*123456

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification MG Meter Number Identifies a specific Service	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 The reference identification could be a meter number or other service code or number	X AN 1/30

Segment: **DTM** Date/Time Reference - Posting
Position: 180
Loop: RMR Optional (Must Use)
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: required for non-POR and not used for POR

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 809 Posted	M	ID 3/3
>>	DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	X	ID 2/3
>>	DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X	AN 1/35

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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	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

MASSACHUSETTS Electronic Business Transactions Standard

For

Electronic Data Interchange

TRANSACTION SET

867

Product Transfer and Resale Report

Ver/Rel 004010

Outbound to Energy Supplier

Summary of Changes

MARCH 29, 1999	• Initial Release – Version 99.1
JULY 14, 2004	• Added REF*T0 segment for Customer Generation Source • Added REF*SPL segment for Standard Point Location Code - Zone • Added Dun's + 4 capability for Suppliers to use on the N1*SJ Segment.
JUNE 27, 2006	• Added customers ICAP TAG value segment for suppliers. Segment PSA.
January 14, 2015	• Added REF03 to REFPRT to allow for Net Meter Indicator
November 4, 2015 Version 2.0	• Added new segment REF*KY in support of Net Metering Final Release

January 30, 2024
Version 2.1
	• Incorporated CC 030
	  o Corrected K2 to K4
	• Incorporated CC 031
	  o Added REF*BF Bill Cycle for Eversource

867 Product Transfer and Resale Report

Functional Group ID=PT

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	ST	Transaction Set Header	M	1	
M	020	BPT	Beginning Segment for Product Transfer and Resale	M	1	
	078	PSA	Partner Share Accounting	O	10	
			LOOP ID - N1			1
Must Use	080	N1	Name - Distribution Company	O	1	
Must Use	120	REF	Reference Identification - Distribution Company Account	O	1	
			LOOP ID - N1			1
Must Use	080	N1	Name - Supplier	O	1	
	120	REF	Reference Identification - Supplier Account	O	1	
			LOOP ID - N1			1
Must Use	080	N1	Name - Customer Name	O	1	

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
			LOOP ID - PTD			>1
M	010	PTD	Product Transfer and Resale Detail	M	1	
	030	REF	Reference Identification - Disco Rate Code	O	1	
	030	REF	Reference Identification - Type of Service	O	1	
	030	REF	Reference Identification - Service Identifier	O	1	
	038	REF	Reference Identification - Generation Source	O	1	
	043	REF	Reference Identification - Standard Point Location Code	O	1	
	044	REF	Reference Identification - Special Meter Configuration	O	1	
	045	REF	Reference Identification - LDC Bill Cycle	O	1	
			LOOP ID - QTY			>1
Must Use	110	QTY	Quantity	O	1	
	160	MEA	Measurements - Demand	O	1	
	160	MEA	Measurements - KWH	O	1	
Must Use	210	DTM	Date/Time Reference - Period Start	O	1	
Must Use	210	DTM	Date/Time Reference - Period End	O	1	

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 867 Product Transfer and Resale Report	**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: **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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**BPT01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 52 Response to Historical Inquiry Response to a request for historical meter reading.	**M**	**ID 2/2**
>>	**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 request.	**O**	**AN 1/30**
M	**BPT03**	**373**	**Date** Date expressed as CCYYMMDD Transaction Creation Date	**M**	**DT 8/8**

Segment: **PSA** **Partner Share Accounting**
Position: 078
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To communicate the percentage share of the project that a particular owner has to pay
Syntax Notes: **1** If PSA05 is present, then PSA04 is required.
Semantic Notes: **1** PSA04 is the amount of the total partner's share of gross charges for the property, if PSA05 is not used.
Comments: **1** PSA03 is expressed as a decimal amount.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**PSA01**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 93 Code assigned by the organization originating the transaction set	**M**	**ID 1/2**
M	**PSA02**	**67**	**Identification Code** Code identifying a party or other code f the ICAP TAG is zero or greater use literal value "ICAP TAG". If the ICAP TAG field on the Application file is blank, than use the literal value "NO ICAP TAG".	**M**	**AN 2/80**
M	**PSA03**	**826**	**Owners Share** To indicate owner's share of the property ICAP TAG VALUE (Should never be blank. If the ICAP TAG Application file field is blank the default will be zero for this field, otherwise it will either be zero or greater). Field format is 5.3 or 5 places to the left of the decimal and 3 places to the right of the decimal. (To determine if a zero in this field is the ICAP TAG or the default value refer to the PSA02 element description). Example = 00001230 or 00000000	**M**	**R 1/8**
	PSA04	**782**	**Monetary Amount** Monetary amount	**X**	**R 1/18**

Segment: **N1** **Name - Distribution Company**
Position: 080
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP) Utility	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name	**X**	**AN 1/60**
>>	**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	**X**	**ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code	**X**	**AN 2/80**

Segment: **REF** **Reference Identification - Distribution Company Account**
Position: 120
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
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 by the Utility Industry Group

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered Utility-assigned account number for the end use customer.	**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**

Segment: **N1** **Name - Supplier**
Position: 080
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual		**M**	**ID 2/3**
			SJ	Service Provider		
				Identifies name and address information as pertaining to a service provider for which billing is being rendered		
				Energy Service Provider		
	N102	**93**	**Name** Free-form name		**X**	**AN 1/60**
>>	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)		**X**	**ID 1/2**
			1	D-U-N-S Number, Dun & Bradstreet		
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code		**X**	**AN 2/80**

Segment: **REF** **Reference Identification - Supplier Account**
Position: 120
Loop: N1 Optional (Must Use)
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Energy Service Provider-assigned account number for the end use customer.	**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**

Segment: **N1** **Name - Customer Name**
Position: 080
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
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		
				Current name of the end use customer.		
>>	**N102**	**93**	**Name**		**X**	**AN 1/60**
			Free-form name			

Segment: **PTD** **Product Transfer and Resale 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: The PTD loop conveys consumption information for one meter or register over a number of metering intervals. Accounts that have multiple meters or registers require multiple PTD loops.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**PTD01**	**521**	**Product Transfer Type Code** Code identifying the type of product transfer PM Physical Meter Information	**M ID 2/2**

Segment: **REF** **Reference Identification - Disco Rate Code**
Position: 030
Loop: PTD 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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification NH Rate Card Number Utility Rate class or tariff	**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**

Segment: **REF** **Reference Identification - Type of Service**
Position: 030
Loop: PTD 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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification PRT Product Type Identifies the type of service; e.g., yard light, water heater, etc.	**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 A Apply To All Services C Combined Service (Multiple Meters Billed as a Summary) D Metered Service Demand & kWh E Metered Service kWh F Metered Service TOU - Off Peak H Controlled Hot Water L Lighting Service N Non-Metered Service O Metered Service TOU - On Peak T Metered Service TOU	**X AN 1/30**
R	**REF03**	**352**	**Description** A free-form description to clarify the related data elements and their content To indicate presence of Net Meter X Net Meter	**X AN 1/80**

Segment: **REF** **Reference Identification - Service Identifier**
Position: 030
Loop: PTD 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 segment is required if PTD01 equals P.M.; this segment is optional if PTD01 equals SU.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
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 Meter Number. NU uses this field to represent Service Account ID	**X**	**AN 1/30**

Segment: **REF** **Reference Identification - Generation Source**
Position: 038
Loop: PTD 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:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**
			Code qualifying the Reference Identification			
			T0	Dealer Type Identification		
				Generation Source. For Historical Usage Reporting, identifies type of generation most recently assigned to account.		
	REF02	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			C	Competitive Supplier		
			D	Default, Fixed Rate		
			S	Standard Offer		
			V	Default, Variable Rate		
	REF03	**352**	**Description**		**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content			

Segment: **REF** **Reference Identification - Standard Point Location Code**
Position: 043
Loop: PTD 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: The Independant System Operator for New England (ISO NE) has established 8 zonal areas within New England Power Pool in support of FERC'S Standard Market Design rules. Each customer will be associated to a zone within the ISO as determined by the Local Distribution Company. Energy will be delivered to these zones, for customers within the zone, by their energy suppliers. The zone is a new attribute of a customer's account that needs to be provided to the Energy Supplier to enable them to manage their supply.

The zone attribute will be returned as part of a successful enrollment response to a supplier enrollment request. If the zone is changed by the LDC, during the period served by the supplier, an 814 Change transaction will be issued by the LDC with the new REF*SPL**ZONE identified. The zone would also be issued on a MOVE transaction and a successful response to a Historical Usage Request, 867 Document.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification SPL Standard Point Location Code (SPLC) Standard Point Location Code (SPLC) Point at which the customer is connected to the transmission grid (ISO NE Zone) This represents the Wholesale Settlement Zone	**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**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content CONNECTICUT MAINE NEMASSBOST NEWHAMPSHIRE RHODEISLAND	**X**	**AN 1/80**

SEMASS
VERMONT
WCMASS

Segment: **REF** **Reference Identification - Special Meter Configuration**
Position: 044
Loop: PTD 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: Not used by NSTAR (see REF*PRT). Not used by WMECO.

Example: REF*KY*NETMETER

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification KY Site Specific Procedures, Terms, and Conditions A set of procedures, terms, and conditions, applicable to a category of procurement emanating from a specific location, which will be incorporated into all procurement actions in that category by referencing its unique number rather than by incorporating the lengthy details it represents Special Meter Configuration	**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 NETMETER Net Metering Present	**M AN 1/30**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content	**O AN 1/80**

Segment: **REF** **Reference Identification - LDC Bill Cycle**
Position: 045
Loop: PTD 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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BF Billing Center Identification LDC Bill Cycle	**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 Bill Cycle as 2-digit number (e.g. 01, 02, etc)	**X AN 1/30**

Segment: **QTY** **Quantity**
Position: 110
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity QD Quantity Delivered	**M ID 2/2**
>>	**QTY04**	**61**	**Free-Form Message** Free-form information NV No Value	**X AN 1/30**

Segment: **MEA** **Measurements - Demand**
Position: 160
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**
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 K1 Kilowatt Demand Represents potential power load measured at predetermined intervals K4 Kilovolt Amperes Measure of electrical power	**M ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 22 Actual	**O ID 2/2**

Segment: **MEA** **Measurements - KWH**
Position: 160
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
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: When meter readings are recorded, this segment must be is sent with the first iteration of the QTY loop, to establish the initial measurement values and readings. For subsequent iterations of the QTY loop, this segment need not be sent because the readings can be inferred by accumulating the QTY02 value.
May not apply to summarized or historical data.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**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.	**X**	**R 1/20**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**	
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 KH Kilowatt Hour	**M**	**ID 2/2**
>>	**MEA07**	**935**	**Measurement Significance Code** Code used to benchmark, qualify or further define a measurement value 22 Actual 46 Estimated	**O**	**ID 2/2**

Segment: **DTM** **Date/Time Reference - Period Start**
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M**	**ID 3/3**
	DTM05	**1250**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	**X**	**ID 2/3**
	DTM06	**1251**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times	**X**	**AN 1/35**

Segment: **DTM** **Date/Time Reference - Period End**
Position: 210
Loop: QTY Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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 segment must be sent with the first iteration of the QTY loop, to establish the initial interval date and time. For subsequent iterations of the QTY loop, this segment need not be sent because the dates and times can be inferred from the metering interval identified in the meter type (REF01 = MT).

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 151 Service Period End	**M**	**ID 3/3**
	DTM05	**1250**	**Date Time Period Format Qualifier** Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD	**X**	**ID 2/3**
	DTM06	**1251**	**Date Time Period** Expression of a date, a time, or range of dates, times or dates and times	**X**	**AN 1/35**

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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M**	**N0 1/10**
M	**SE02**	**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**