# New York Implementation Standard

For

# Standard Electronic Transactions

**TRANSACTION SET**

# 814

# Enrollment Request & Response

**Ver/Rel 004010**

| | **Summary of Changes** |
|---|---|
| 7/20/01 | Initial Release |
| August 7, 2002 Version 1.1 | Version 1.1 Issued |
| | Added a REF*AJ segment (Utility Account Number for ESCO/Marketer) per June 21, 2002 order. |
| | The Field Descriptions Page was replaced with an updated version. |
| | The Front Matter Notes regarding 'Effective Date' were changed to reflect the business process rules regarding reinstatement adopted in an order issued on May 29, 2002. The list of documents provided under "Companion Documents' was also expanded to include the Reinstatement Implementation Guide and Business Process documents. |
| | Modified the Front Matter Notes regarding 'Secondary Services' to remove an erroneous reference to a REF*TZ segment and to clarify the use of the NM1 detail loop for an accept response to a secondary request for consumption history/gas profile. An NM1 loop is required an in accept response to an enrollment request (primary request) but is never sent in an accept response to a secondary request for consumption history/gas profile. |
| | Modified the segment notes for the following segments to distinguish between the use of each segment in the 814 transaction sent in response to an enrollment request versus the response to a secondary request for consumption history/gas profile data: N1*8R (Customer), N3/N4 (Service Address), N1*BT (Name for Mailing), N3/N4 (Mailing Address), REF*93 (Fee Approved/Fee Applied), REF*11 (E/M Customer Account Number), REF*45 (Previous Utility Account Number), REF*65 (Meter Cycle Code), REF*BF (Bill Cycle Code), REF*BLT (Bill Presenter), REF*PC (Bill Calculator), REF*NR (Current Budget Billing Status), REF*PGC (Partial Participation Portion), REF*SU (Customer on Life Support), REF*VI (Gas Pool ID), REF*GC (Gas Capacity Assignment/Obligation), REF*GS (Gas Supply Service Option), REF*ALC (Human Needs Indicator), REF*SPL (ISO Location Based Marginal Pricing Zones), REF*RP (Portion Taxed Residential), DTM*150 (Assigned Service Start Date), AMT*DP (Tax Exemption Percent), AMT*RJ (Commodity Price), AMT*KZ (Electric Capacity Assignment), and all segments contained in the NM1 Loop. |
| | Modified the element notes for REF03 in the REF*65 (Meter Cycle Code) and REF*BF (Bill Cycle Code) segments to clarify that this element is required in an accept response to an enrollment request when the data sent in REF02 is insufficient to describe both when and how frequently meters are scheduled to be read and/or bills are scheduled to be rendered per the document issued October 2, 2001. |
| | Clarified use of the REF03 element in the REF*TU (Use Time of Day) segment and element notes per document issued October 2, 2001. |

| | **Summary of Changes (Continued)** |
|---|---|
| November 26, 2002 Version 1.2 | • Added a new AMT segment (AMT*FW) to permit ESCO/Marketers to send fixed charge information as well as rates or rate codes when the bill option requested is Utility Rate Ready consolidated billing. |
| March 17, 2004 Version 1.3 | • Added code values to the 02 element in the REF*TU segment to enable Orange & Rockland Utilities, Inc. and Consolidated Edison of New York, Inc. (or other utilities at their option) to describe in more detail in an Accept Response transaction, the type of electric usage data ESCOs can expect to receive in either an 867HU or 867MU transaction.<br>• Added AMT*9M and AMT*9N to enable ESCOs to transmit customer's tax rate information when the bill option requested is Utility Rate Ready consolidated billing and the Utility requires ESCOs to provide this data in an Enrollment transaction. When different tax rates are applicable to portions of the ~~customers~~customer's service i.e. when a REF*RP segment is present in a Request transaction, it will be necessary to send both the 9M (residential tax rate applicable to a portion of the service) and the 9N segment (commercial tax rate applicable).<br>• Notes regarding the attributes of "R" elements were added to the Front Matter notes. |
| Version 2.0 May 17, 2006 | • The "All meters per Account" section of the Front Matter Notes is revised to indicate that an ESCO/Marketer may separately enroll the un-metered electric service for accounts in Orange & Rockland's service territory where both metered and un-metered electric service are present on the account. To separately enroll the un-metered service the REF03 element must be present in the REF*12 (Utility Account Number) segment.<br>• The "Cross Referencing Request and Response Transactions" section of the Front Matter Notes is revised to clarify the use of various segments/elements in an Enrollment Accept Response transaction when this transaction is not preceded by an Enrollment Request transaction sent by the E/M.<br>• The "Fees" section of the Front Matter Notes is deleted. Prior to November 21, 2003 fees could be assessed for requests for history data under specific conditions. To accommodate fees, a REF*93 (Fee Approved/Fee Applied) segment was required to be sent in the LIN loop containing requests for historic usage (HU) or a gas profile (GP) to indicate whether the E/M was willing to pay a fee for the data if one was applicable. Under the current Uniform Business Practices fees may no longer be assessed for satisfying EDI requests for consumption history. |
| | • References to Niagara Mohawk or NMPC throughout the document were revised to refer to National Grid. |

| | Summary of Changes (Continued) |
|---|---|
| | • The element notes for BGN06 in the BGN Segment are revised to indicate that this element may be populated with the text 'MANUAL' in an Enrollment Accept Response transaction when there is no corresponding Request transaction, for example, when a customer participating in an ESCO Referral Program is enrolled by the utility and the Response is being sent to provide the assigned ESCO with the customer's account details. An additional example was also added to the BGN segment notes. |
| | • An N106 element is added to the N1*8R (Customer) segment to for use by utilities in Enrollment Accept Response transactions to identify the enrollment as an ESCO Referral Program enrollment. |
| | • A PER segment is added to the N1 (Customer) Loop to enable utilities that enroll ~~customers~~customer's participating in ESCO Referral Programs with an ESCO to transmit the customer's telephone number in an Accept Response transaction. |
| | • The FNA code (Fee Not Authorized) is deleted from the list of possible reject reason codes in the REF*7G segment (Reject Response Reasons) and the REF*93 (Fee Approved/Fee Applied) segment is deleted from the standard. Fees are no longer being assessed for consumption history provided via EDI. |
| | • A REF03 element is added to the REF*12 segment (Utility Account Number) for use on Enrollment Requests sent to, or received from, Orange & Rockland Utilities when the transaction pertains to enrolling the un-metered portion of a ~~customers~~customer's electric service when both metered and un-metered service are present on the same account. |
| | • The segment notes for the REF*BLT (Bill Presenter) and REF*PC (Bill Calculator) were revised to clarify the content of these segments for the Single Retailer Model in National Fuel Gas' service territory and to omit references to RG&E since Single Retailer is no longer offered in that service territory. |
| | • The notes for the REF*NR (Current Budget Billing Status) segment is also revised to omit reference to Rochester Gas & Electric's use of the Single Retailer model. |
| | • A REF*LF (E/M Late Fees) segment is added at the account level to enable E/Ms to communicate in Enrollment Request transactions sent to National Fuel Gas whether the utility should calculate and assess late fees on E/M charges for the account being enrolled. This segment pertains to the Utility Rate Ready bill option only. |
| | • The notes for the REF*SU (Customer on Life Support) segment is revised to omit reference to Rochester Gas & Electric's use of the Single Retailer model. |
| | • The REF*ALC segment (Human Needs Customer) notes are revised to indicate that this segment is required by National Grid only on gas enrollment requests for non-residential customers. |

| | **Summary of Changes (Continued)** | |
|---|---|---|
| | • An AMT*BD (E/M Budget Plan Balance) and an AMT*B5 (E/M Budget Plan Installment Amount) segments are added for use in Enrollment Request transactions sent to National Fuel Gas to communicate a ~~customers~~customer's budget plan installment and pre-existing budget plan balance when the customer's bill option is Utility Rate Ready billing and a REF*NR segment is present in the Request transaction. | |
| | • The AMT*RJ (Commodity Price), AMT*FW (E/M Fixed Charge) and the REF*RB segment notes are revised to accommodate Enrollment Accept Response transactions associated with ESCO Referral Program enrollments initiated by the utility.  The AMT*RJ and AMT*FW segments may contain zeros or dummy codes in Response transactions. The usage attribute for the REF*RB (ESCO Rate Code) segment in an Enrollment Accept Response transaction is changed from 'Not Used' to 'Conditional' so that National Grid may send this segment in an Enrollment Accept Response transaction for ESCO Referral Program enrollments. | |

| Version 2.1 October 23, 2014 | Notes pertaining to the use of this document |
|---|---|
| | • Adding these new segments from Case - 12-M-0476. |
| |     o REF*IJ (Industrial Classification Code), |
| |     o REF*TX (Utility Tax Exempt Status), |
| |     o REF*TDT (Account Settlement Indicator), |
| |     o REF*YP (NYPA Discount Indicator), |
| |     o REF*SG (Utility Discount) |
| | • Utility specific notes are generalized, as appropriate, and designated for relocation to/reference within Utility Maintained EDI Guides, as necessary. |
| | • Removed references to ESCO Referral Program |
| | • Replaced references to Marketer and E/M with ESCO. |

| | **Notes pertaining to the use of this document** |
|---|---|
| Purpose | • This 814 Enrollment Transaction Set will be used to enroll or switch a customer, and to request secondary services coincident with that customers' enrollment. These standards are based on the ASC X12 Ver/Rel 004010 standard and related UIG guidelines. |
| One account per 814 | • Each transaction may contain only one account for one commodity (i.e. electric, gas, etc.). If a customer takes both electric and gas bundled service from the utility under a single account number, and the E/MESCO supplies both electric and gas, two 814 enrollment requests must be submitted – one for the switch of electric service and another for the switch of gas service. |
| All meters per account | • Except for enrollments in Orange & Rockland'swhere a utility supports separate enrollment of the un-metered electric service territoryfor accounts, when a customer enrolls with an ESCO/Marketer for their electric service, all electric meters (and/or un-metered electric service) on the customer's account will be enrolled with that supplier. Similarly, an enrollment with the same (or a different) supplier for gas service, will result in the enrollment of all gas meters with that supplier.<br>• In Orange & Rockland's service territoryWhere a utility supports separate enrollment of the un-metered electric service for accounts, when both metered and un-metered electric service is present on an account, an ESCO/Marketer may separately enroll (or drop) the un-metered service on that account by transmitting the REF03 element in the REF*12 (Utility Account Number) segment. |
| Multiple requests per commodity per account | • This 814 Transaction Set can accommodate more than one action request per commodity per account. Each request should be in a separate LIN loop but the request for enrollment (LIN05 = CE) is considered the primary request and should be placed first in the transaction. Refer to the LIN segment in this document for a better understanding of primary and secondary services. The secondary requests reflected in this implementation guide are requests for actual history data for the customer being enrolled or a request for a gas profile for a customer being enrolled for gas service. |

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| Cross referencing Request and Response transactions | • | In most instances, the id sent in the BGN02 element in the BGN segment in a request must be returned in the BGN06 element of the BGN segment sent in a Response transaction.  There must be one response LIN for each request LIN sent.  It is possible, for example, to accept an enrollment request (LIN05 = CE) but reject the secondary request for history data (LIN05 = HU).  The response to each LIN loop on the request must be uniquely identified on the response with the same identification sent in the request LIN01.  Responses may be created and sent at different times in different 814 transactions, but all LINs must be responded to within the time limits set by the Commission in the Uniform Business Practices. |
| | • | In Enrollment Accept Response transactions for which there is no corresponding Enrollment Request transaction, the BGN06 element in the BGN segment will be populated with the word "MANUAL" in lieu of the BGN02 id from a Request transaction. |
| | • | ~~In service territories where ESCO Referral Programs have been implemented, customers may enroll with an E/M by designating, or accepting random assignment to, an ESCO by contacting the utility.   In these programs, the ESCO will not send an Enrollment Request transaction but an Accept Response transaction must still be sent by the utility to communicate the customer's account details.  In these instances, the N106 element in the N1*8R (Customer) segment is required, in Enrollment Accept Response transactions, to identify ESCO Referral Program enrollments.~~ |
| | • | ~~Certain segments in Response transactions for ESCO Referral Program participants are modified to accommodate these programs, for example, the AMT*RJ (Commodity Price) and AMT*RJ (E/M Fixed Charge) may be populated with zeros or dummy codes or the REF*RB (ESCO Rate Code) segment in the detail may be populated with a utility assigned code.~~ |
| | • | ~~Prior to the end of the predetermined introductory discount period in an ESCO Referral Program, where the customer and ESCO have agreed upon the terms and conditions of supply service that will be in effect after the introductory period, the ESCO must send an 814 Change Request to communicate the commodity price and/or fixed charge or rate code applicable to the post introductory period.~~ |
| Validation Fields | • | Validation field is the customer's utility account number (with check digit, if included). |

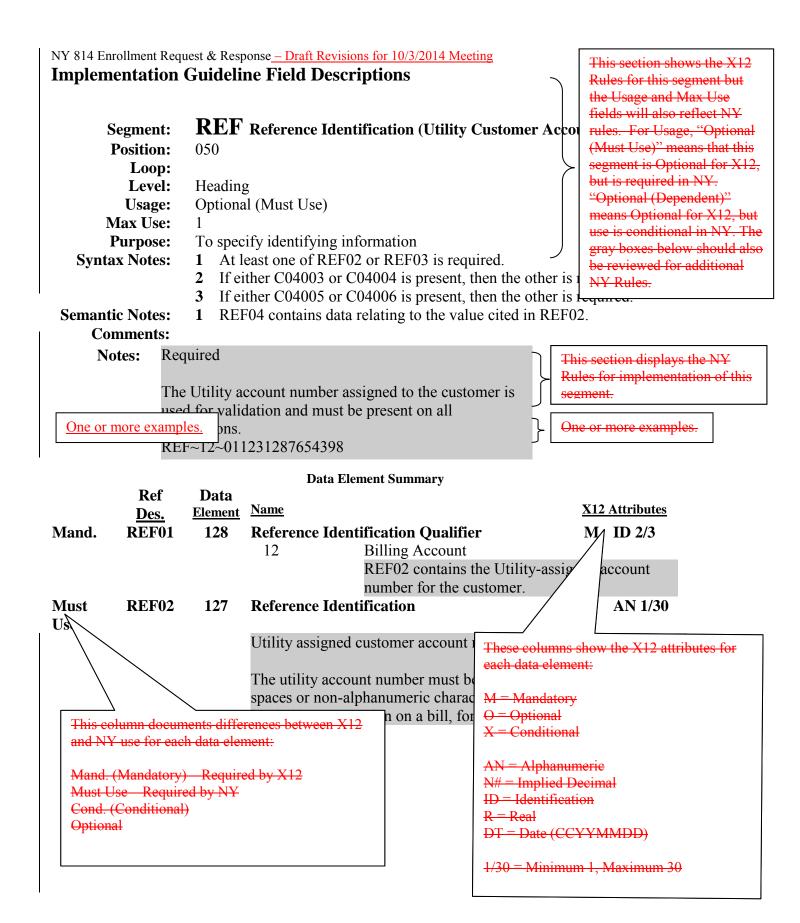| | |
|---|---|
| Effective Date | • The effective enrollment date for a customer should not be sent in 814 Enrollment Requests. The effective enrollment date for an account is determined by the Utility and will be returned in an Enrollment Accept Response transaction. Customers will be enrolled with a supplier coincident with the date of the customer's next regularly scheduled meter read date or the first of the month for gas, provided that the suppliers request has been received and processed by the Utility at least 15 calendar days in advance of this date and the customer has not rescinded the pending enrollment.<br><br>• Valid enrollment requests that do not comply with the 15 day requirement may not be rejected; the customer may be enrolled on the next succeeding meter read date for that customer or the first of following month for gas (if a special read has NOT been requested) provided that the customer has not rescinded the pending enrollment request. The *Reinstatement Business Process* document should also be reviewed for a description of factors that may affect the determination of the effective date for an enrollment.<br><br>• A customer may be enrolled with an ESCO/Marketer on an off cycle date but these requests are not currently being processed via EDI. Arrangements for an off cycle enrollment date should be made directly with the Utility and will only be granted subject to the requirements of that Utility's tariffs. |
| Secondary Services | • The secondary requests reflected in this implementation guide are a request for history data (LIN05 = HU) or a request for a gas profile (LIN05=GP).<br><br>• When the enrollment request (LIN = CE) is rejected, all secondary services requested coincident with that enrollment will also be rejected.<br><br>• LIN05 = GP is a secondary service request for a gas profile for the customer being enrolled. A gas profile is a weather-normalized forecast for a twelve-month period for the customer being enrolled. Gas profiles are not supported by all Utilities (see Conditional Data Segments below). When this request is accepted, the ESCO/Marketer will receive an 814 Accept Response transaction and the gas profile data will be provided in an 867HU transaction.<br><br>• LIN05 = HU is a secondary service request for history data for the customer being enrolled. When this request is accepted, the ESCO/Marketer will receive an 814 'accept' response transaction and summarized data on usage for the most recent 12 month period (or the life of the account, if shorter) for the customer being enrolled in an 867 HU transaction.<br><br>• The REF*MT (Measurement Type and Reporting Interval) and REF*TU (Use Time of Day) segments in the NM1 loop may be used to describe the type(s) of usage a meter is capable of measuring. An NM1 loop will only be returned in an 814 response transaction accepting the enrollment request.<br><br>• The REF*TU segment would not be used in a response to a gas |

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| | | enrollment request and would only be sent in a response to an electric enrollment request when either the REF03 element in the REF*MT segment is "COMBO" or electric usage is being measured for multiple time periods in a day on the account being enrolled.<br>• Although data sent in a REF*MT segment may indicate that a meter is capable of measuring usage in intervals, such as 15 or 30 minutes, no interval data will be returned in an 867HU transaction in response to an HU request.  Requests for interval data on customer accounts must be sent in a separate 814-request transaction and not as a secondary request on an enrollment transaction.  Arrangements for receipt of interval data, and usage data in excess of 12 months, must be made with the applicable utility since this data may not be returned on an 867 transaction.<br>• A request for consumption history that is not coincident with a request for enrollment is addressed in another implementation guide (see *TS 814 Consumption History Request & Response*). |
| Single Retailer Model | | • There are some significant differences in the required segments for an enrollment request (and related secondary services) and responses where the Single Retailer Model has been implemented for retail access (currently National Fuel Gas supports this model)..   These differences have been noted in the notes and gray box text in the individual data segments in this implementation guide. |
| Data Element Attributes | | • Data elements whose X12 attribute type is 'R' (see the AMT segments for examples) are treated as real numbers. 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; therefore a decimal point must be sent when decimal precision is required. Note that in transmitting real numbers it is acceptable, but not necessary, to transmit digits that have no significance i.e. leading or trailing zeros. |
| Conditional Data Segments | | • There are minor differences in the extent to which specific data elements are supported by each Utility and/or whether they are applicable to both electric and gas services.  These differences have been noted, for the most part, in the data dictionary associated with this implementation guide.<br>• Only Consolidated Edison and KeySpan currently supportWhere a utility provides gas profile data.  If, if the LIN05 = GP and the Utility does not support gas profiles, the Utility will return the default history data, for the account being enrolled, on an 867 (i.e. up to 12 months of usage, or the life of the account). |
| Definitions | | • The term Utility or LDC (Local Distribution Company) is used in this document to refer to the local gas or electric distribution company, i.e. the entity providing regulated bundled commodity service. The term ESCO/Marketer is used in this document to refer to either a gas or electric supplier.  The principal parties involved in this Transaction Set 814 implementation guide are:<br>➢ The end-use customer (Code 8R)<br>➢ The Utility (LDC) (Code 8S)<br>➢ The Supplier (ESCO/Marketer or E/MESCO) (Code SJ). |

| | |
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| Rejection vs. Acceptance with Status Reason code | • A warning/informational code is different than a Rejection Reason code. The warning code is used to give additional information to the receiving party (an FYI). If an 814 Request does not contain a segment required by the recipient Utility and/or a segment contains incorrect data, some Utilities will reject the transaction while others may accept the transaction and send a warning in their 814 response. Refer to the data dictionary associated with this implementation guide for further clarification. |
| Companion Documents | • All of the applicable business rules for New York are not necessarily documented in this implementation guide. Accordingly, the following documents should be reviewed where further clarification is needed:<br>   ➢ *Enrollment Business Processes document*<br>   ➢ *TS 814 Enrollment Request and Response Data Dictionary*<br>   ➢ *TS 814 Reinstatement Request & Response Implementation Guide*<br>   ➢ *Reinstatement Business Processes Document*<br>   ➢ *TS 814 Change (Account Maintenance) Implementation Guide* |

# Implementation Guideline Field Descriptions

|  |  |
|---|---|
| **Segment:** | **REF** Reference Identification (Utility Customer Acco... |
| **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 ... |
| | 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:** | |

This section shows the X12 Rules for this segment but the Usage and Max Use fields will also reflect NY rules. For Usage, "Optional (Must Use)" means that this segment is Optional for X12, but is required in NY. "Optional (Dependent)" means Optional for X12, but use is conditional in NY. The gray boxes below should also be reviewed for additional NY Rules.

**Notes:**  Required

The Utility account number assigned to the customer is used for validation and must be present on all ...ons.
REF~12~011231287654398

This section displays the NY Rules for implementation of this segment.

One or more examples.

One or more examples.

### Data Element Summary

| | Ref Des. | Data Element | Name | X12 Attributes |
|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M  ID 2/3** |
| | | | 12   Billing Account | |
| | | | REF02 contains the Utility-assig... account number for the customer. | |
| **Must Us...** | **REF02** | **127** | **Reference Identification** | **AN 1/30** |
| | | | Utility assigned customer account ... | |
| | | | The utility account number must be ... spaces or non-alphanumeric charac... ...n on a bill, for ... | |

These columns show the X12 attributes for each data element:

M = Mandatory
O = Optional
X = Conditional

AN = Alphanumeric
N# = Implied Decimal
ID = Identification
R = Real
DT = Date (CCYYMMDD)

1/30 = Minimum 1, Maximum 30

This column documents differences between X12 and NY use for each data element:

Mand. (Mandatory) – Required by X12
Must Use – Required by NY
Cond. (Conditional)
Optional

# 814 Enrollment Request and Response

**Functional Group ID=GE**

## Introduction:

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

## Notes:

This guideline is limited to defining the required and optional information needed to satisfy a request for enrollment, a response accepting the enrollment request, a response rejecting the enrollment request, and the requests and responses for secondary services that may be requested in conjunction with the enrollment request.

## Heading:

| Page No. | Pos. No. | Seg. ID | Name | Req. Des. | Max.Use | Loop Repeat | Notes and Comments |
|---|---|---|---|---|---|---|---|
| 32 | 010 | ST | Transaction Set Header | M | 1 | | |
| 54 | 020 | BGN | Beginning Segment | M | 1 | | |
| | | | LOOP ID - N1 | | | 1 | |
| 65 | 040 | N1 | Name (ESCO/Marketer) | O | 1 | | |
| | | | LOOP ID - N1 | | | 1 | |
| 76 | 040 | N1 | Name (Utility) | O | 1 | | |
| | | | LOOP ID - N1 | | | 1 | |
| 87 | 040 | N1 | Name (Customer) | M | 1 | | |
| 98 | 060 | N3 | Address Information (Service Address) | O | 1 | | |
| 109 | 070 | N4 | Geographic Location (Service Address) | O | 1 | | |
| 1110 | 080 | PER | Administrative Communications Contact Customer Phone Number) | O | 1 | | |
| | | | LOOP ID - N1 | | | 1 | |
| 1211 | 040 | N1 | Name (Name for Mailing) | O | 1 | | |
| 1312 | 060 | N3 | Address Information (Mailing Address) | O | 1 | | |
| 1413 | 070 | N4 | Geographic Location (Mailing Address) | O | 1 | | |

## Detail:

| Page No. | Pos. No. | Seg. ID | Name | Req. Des. | Max.Use | Loop Repeat | Notes and Comments |
|---|---|---|---|---|---|---|---|
| | | | LOOP ID - LIN | | | >1 | |
| 1514 | 010 | LIN | Item Identification | O | 1 | | |
| 1716 | 020 | ASI | Action or Status Indicator | O | 1 | | |
| 1817 | 030 | REF | Reference Identification (Reject Response Reasons) | O | >1 | | |
| 1918 | 030 | REF | Reference Identification (Response Information or Warnings) | O | >1 | | |
| 2019 | 030 | REF | Reference Identification (ESCO/Marketer Customer Account Number) | O | 1 | | |
| 2120 | 030 | REF | Reference Identification (Utility Account Number) | O | 1 | | |
| 2221 | 030 | REF | Reference Identification (Previous Utility Account Number) | O | 1 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2322 | 030 | REF | Reference Identification (Utility Account Number for ESCO/Marketer) | O | 1 | |
| 2423 | 030 | REF | Reference Identification (Meter Cycle Code) | O | 1 | |
| 2524 | 030 | REF | Reference Identification (Bill Cycle Code) | O | 1 | |
| 2625 | 030 | REF | Reference Identification (Bill Presenter ) | O | 1 | |
| 2726 | 030 | REF | Reference Identification (Bill Calculator) | O | 1 | |
| 2827 | 030 | REF | Reference Identification (Current Budget Billing Status) | O | 1 | |
| 2928 | 030 | REF | Reference Identification (E/MESCO Late Fees) | O | 1 | |
| 3029 | 030 | REF | Reference Identification (Partial Participation Portion) | O | 1 | |
| 3130 | 030 | REF | Reference Identification (Customer on Life Support) | O | 1 | |
| 3231 | 030 | REF | Reference Identification (Gas Pool ID) | O | 1 | |
| 3332 | 030 | REF | Reference Identification (Gas Capacity Assignment/Obligation) | O | 1 | |
| 3433 | 030 | REF | Reference Identification (Gas Supply Service Option) | O | 1 | |
| 3534 | 030 | REF | Reference Identification (Human Needs Customer) | O | 1 | |
| 3635 | 030 | REF | Reference Identification (ISO Location Based Marginal Pricing Zones) | O | 1 | |
| 3736 | 030 | REF | Reference Identification (Portion Taxed Residential) | O | 1 | |
| 37 | 030 | REF | Reference Identification (Account Settlement Indicator) | O | 1 | |
| 38 | 030 | REF | Reference Identification (NYPADiscount Indicator) | O | 1 | |
| 39 | 030 | REF | Reference Identification (Utility Discount Indicator) | O | 1 | |
| 40 | 030 | REF | Reference Identification (Industrial Classification Code) | O | 1 | |
| 41 | 030 | REF | Reference Identification (Tax Exempt Status) | O | 1 | |
| 3742 | 040 | DTM | Date/Time Reference (Assigned Service Start Date) | O | 1 | |
| 3843 | 060 | AMT | Monetary Amount (E/MESCO Budget Plan Installment Amount) | O | 1 | |
| 3944 | 060 | AMT | Monetary Amount (E/MESCO Budget Plan Balance) | O | 1 | |
| 4045 | 060 | AMT | Monetary Amount (Tax Exemption Percent) | O | 1 | |
| 4146 | 060 | AMT | Monetary Amount (Commodity Price) | O | 1 | |
| 4247 | 060 | AMT | Monetary Amount (E/MESCO Fixed Charge) | O | 1 | |
| 4348 | 060 | AMT | Monetary Amount [Customer's Tax Rate for E/MESCO Charges - 1) | O | 1 | |
| 4449 | 060 | AMT | Monetary Amount [Customer's Tax Rate for E/MESCO Charges - 2) | O | 1 | |
| 4550 | 060 | AMT | Monetary Amount (Electric Capacity Assignment) | O | 1 | |
| | | | LOOP ID - NM1 | | >1 | |
| 4651 | 080 | NM1 | Metered or UnMetered Service Points | O | 1 | n1 |
| 4752 | 130 | REF | Reference Identification (Utility Rate Service Class) | O | 1 | |
| 4853 | 130 | REF | Reference Identification (Rate Sub Class) | O | 1 | |
| 4954 | 130 | REF | Reference Identification (Utility Load Profile Group Code) | O | 1 | |
| 5855 | 130 | REF | Reference Identification (Measurement Type and Reporting Interval) | O | 1 | |
| 5256 | 130 | REF | Reference Identification (Use Time of Day) | O | >1 | |
| 5557 | 130 | REF | Reference Identification (ESCO Rate Code) | O | 1 | |
| 5658 | 150 | SE | Transaction Set Trailer | M | 1 | |
| E-1 | | | Examples | | | |

## Transaction Set Notes

1.      The N1 loop is used to identify the parties to this transaction.

2. The LIN loop is used to transmit account level data.
3. The NM1 loop is used to transmit meter level data.

| | |
|---|---|
| **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). |
| **Notes:** | Request:   Required |
| | Response: Required |
| | ST~814~0001 |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| Mand. | ST01 | 143 | **Transaction Set Identifier Code** | M | ID 3/3 |
| | | | 814            General Request, Response or Confirmation | | |
| Mand. | ST02 | 329 | **Transaction Set Control Number** | 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. |
| **Notes:** | Request:  Required |
| | Response: Required |
| | Request: BGN~13~20000301145101~20060301 |
| | Response: BGN~11~20000402072434~20060302~~~20060301145101 |
| | Response: BGN~11~20000402072434~ 20060302~~~MANUAL |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| Mand. | BGN01 | 353 | **Transaction Set Purpose Code** | | M    ID 2/2 |
| | | | 11 | Response | |
| | | | 13 | Request | |
| Mand. | BGN02 | 127 | **Reference Identification** | | M    AN 1/30 |
| | | | A unique transaction identifier number assigned by the originator of this transaction.  The BGN02 element from the requesting transaction is returned in the BGN06 element in the response to that request. | | |
| Mand. | BGN03 | 373 | **Date** | | M    DT 8/8 |
| | | | The date the transaction was created by the sender's application system in the form CCYYMMDD. | | |
| Cond. | BGN06 | 127 | **Reference Identification** | | O    AN 1/30 |
| | | | This element is not used on a request transaction but is required in a response transaction. | | |
| | | | If a customer enrollment is initiated by an ~~E/M~~ESCO via transmission of an 814 Enrollment Request transaction, the BGN06 element in a Response transaction must contain the transaction id in the BGN02 element in the corresponding Request transaction. | | |
| | | | When a customer is enrolled with an ESCO by the utility and there is no corresponding Request transaction, for example ~~an ESCO Referral Program enrollment,~~ the BGN06 element will be populated with text (the word "MANUAL") in lieu of the BGN02 id from a Request transaction. | | |

| | | |
|---|---|---|
| **Segment:** | **N1** Name (ESCO/~~Marketer~~) | |
| **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:** | | |
| **Notes:** | Request: Required | |
| | Response: Required | |
| | N1~SJ~~24~123456789 | |
| | N1~SJ~ESP COMPANY~24~123456789 | |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **N101** | **98** | **Entity Identifier Code** | **M** | **ID 2/3** |
| | | | SJ | Service Provider | |
| | | | | Identifies the ESCO/~~Marketer~~ participating in this transaction. | |
| **Optional** | **N102** | **93** | **Name** | **X** | **AN 1/60** |
| | | | Free Form ESCO/~~Marketer~~ Company Name | | |
| | | | Supplemental text information supplied, if desired, to provide "eyeball" identification of the ESCO/~~Marketer~~.  It is not necessary for successful completion of the transaction but may be provided by mutual agreement between trading partners. | | |
| **Must Use** | **N103** | **66** | **Identification Code Qualifier** | **X** | **ID 1/2** |
| | | | 1 | D-U-N-S Number, Dun & Bradstreet | |
| | | | 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | |
| | | | 24 | Employer's Identification Number | |
| | | | | Federal Tax ID | |
| **Must Use** | **N104** | **67** | **Identification Code** | **X** | **AN 2/80** |
| | | | The D-U-N-S number or the Federal Tax ID | | |

| | |
|---|---|
| **Segment:** | # N1 Name (Utility) |
| **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:** | |
| **Notes:** | Request:    Required |
| | Response:  Required |
| | N1~8S~~24~12345678 |
| | N1~8S~UTILITY COMPANY~24~12345678 |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| Mand. | N101 | 98 | **Entity Identifier Code** | | M    ID 2/3 |
| | | | 8S | Consumer Service Provider (CSP) | |
| | | | | Identifies the Utility participating in this transaction. | |
| Optional | N102 | 93 | **Name** | | X    AN 1/60 |
| | | | Free Form Utility Company Name | | |
| | | | Supplemental text information supplied, if desired, to provide "eyeball" identification of the ESCO/Marketer.  It is not necessary for successful completion of the transaction but may be provided by mutual agreement between trading partners. | | |
| Must Use | N103 | 66 | **Identification Code Qualifier** | | X    ID 1/2 |
| | | | 1 | D-U-N-S Number, Dun & Bradstreet | |
| | | | 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | |
| | | | 24 | Employer's Identification Number | |
| | | | | Federal Tax ID | |
| Must Use | N104 | 67 | **Identification Code** | | X    AN 2/80 |
| | | | The D-U-N-S number or the Federal Tax ID | | |

| | |
|---|---|
| **Segment:** | **N1** **Name (Customer)** |
| **Position:** | 040 |
| **Loop:** | N1 Mandatory |
| **Level:** | Heading |
| **Usage:** | Mandatory |
| **Max Use:** | 1 |
| **Purpose:** | To identify the customer in this transaction. |
| **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:** | |
| **Notes:** | Request: Required |
| | Enrollment Accept Response: Required |
| | Other Responses: Optional |
| | |
| | An Enrollment Accept Response being returned by the Utility must contain the service address for the account being enrolled. When service address is being sent (in the N3 and N4 segments in this N1 loop) an N1 segment is required. |
| | ~~The N106 element is required in Enrollment Accept Response transactions pertaining to ESCO Referral Program enrollments initiated by the utility.~~ |
| | N1~8R~NAME~~~NR |
| | N1~8R~MARY SMITH~~~~PS |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **N101** | **98** | **Entity Identifier Code** | **M** | **ID 2/3** |
| | | | 8R Consumer Service Provider (CSP) Customer | | |
| | | | Identifies the end use customer targeted by this transaction. | | |
| **Must Use** | **N102** | **93** | **Name** | **X** | **AN 1/60** |
| | | | Customer Name Supplemental text information may be supplied to provide "eyeball" identification of the customer in this transaction. It is not necessary for successful completion of the transaction but may be provided by mutual agreement between trading partners. | | |
| | | | To comply with ANSI X12 requirements this segment must be sent in an accepted enrollment response because the response must contain service address information. Some Utilities may not provide the actual customer name but will send the literal 'NAME' in this position. | | |
| ~~**Cond.**~~ | ~~**N106**~~ | ~~**98**~~ | ~~**Entity Identifier Code**~~ | ~~**C**~~ | ~~**ID 2/3**~~ |
| | | | ~~PS Previous Station~~ | | |
| | | | ~~ESCO Referral Program Enrollment~~ | | |
| | | | ~~Customer requested enrollment through participation in a utility sponsored ESCO Referral Program.~~ | | |

| | | |
|---|---|---|
| **Segment:** | **N3** Address Information (Service Address) | |
| **Position:** | 060 | |
| **Loop:** | N1 Mandatory | |
| **Level:** | Heading | |
| **Usage:** | Optional (Dependent) | |
| **Max Use:** | 1 | |
| **Purpose:** | To specify the location of the named party | |
| **Syntax Notes:** | | |
| **Semantic Notes:** | | |

| **Notes:** | Request : Not Used |
|---|---|
| | Enrollment Accept Response: Required. |
| | History Accept Response: Optional |
| | Other Response: Not Used |
| | N3~123 N MAIN ST~Service Address Overflow |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **N301** | **166** | **Address Information** | **M** | **AN 1/55** |
| | | | Customer's Service Address | | |
| **Cond.** | **N302** | **166** | **Address Information** | **O** | **AN 1/55** |
| | | | Service address overflow | | |

| | | |
|---|---|---|
| **Segment:** | **N4** **Geographic Location (Service Address)** | |
| **Position:** | 070 | |
| **Loop:** | N1 | Mandatory |
| **Level:** | Heading | |
| **Usage:** | Optional (Dependent) | |
| **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:** | | |
| **Notes:** | Request: Not Used | |
| | Enrollment Accept Response: Required. | |
| | History Accept Response: Optional | |
| | Other Response: Not Used | |
| | N4~MYCITY~NY~19123 | |
| | N4~MYCITY~NY~191230123 | |

## Data Element Summary

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| Must Use | N401 | 19 | City Name | O | AN 2/30 |
| Must Use | N402 | 156 | State or Province Code | O | ID 2/2 |
| Must Use | N403 | 116 | Postal Code | O | ID 3/15 |

| | |
|---|---|
| **Segment:** | **PER** Administrative Communications Contact -Customer Phone Number) |
| **Position:** | 080 |
| **Loop:** | N1 Mandatory |
| **Level:** | Heading |
| **Usage:** | Optional (Dependent) |
| **Max Use:** | 1 |
| **Purpose:** | To identify a person or office to whom administrative communications should be directed |
| **Syntax Notes:** | 1 If either PER03 or PER04 is present, then the other is required. |
| | 2 If either PER05 or PER06 is present, then the other is required. |
| | 3 If either PER07 or PER08 is present, then the other is required. |
| **Semantic Notes:** | |
| **Notes:** | Request: Not Applicable |
| | Enrollment Accept Response: Conditional |
| | |
| | The Customer's Phone Number may be sent in an Accept Response transaction, at the discretion of the Utility, when the utility has enrolled the customer on behalf of an E/M through a utility sponsored ESCO Referral Program. . |
| | PER~IC~~TE~7166756271 |
| | PER~IC~~TE~NOT AVAIL |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| Mand. | PER01 | 366 | **Contact Function Code** | **M** | **ID 2/2** |
| | | | IC Information Contact | | |
| Mand. | PER03 | 365 | **Communication Number Qualifier** | **M** | **ID 2/2** |
| | | | Contact telephone number associated with the customer account identified in REF*12. | | |
| | | | TE Telephone | | |
| Mand. | PER04 | 364 | **Communication Number** | **M** | **AN 1/80** |
| | | | Customer's phone number according to utility records. Format is area code + 7 digit number (xxxyyyzzzz). Where the utility does not have a telephone number on record, this element will contain the text 'NOT AVAIL'. | | |

| | |
|---|---|
| **Segment:** | **N1** **Name (Name for Mailing)** |
| **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:** | | |
| **Notes:** | | Request :                      Not Used |
| | | Enrollment Accept Response: Conditional |
| | | Other Responses:              Not Used |
| | | |
| | | This segment must be sent by the Utility in an Accept Response to an enrollment request when the ESCO/Marketer is the bill presenter and the customer's mailing address for billing differs from the service address. |
| | | N1~BT~C/O Accounts Receivables Dept. |
| | | N1~BT~Robert J. McDonald DBA Tiny Tots |
| | | N1~BT~Ben Jones, Mgr. Store 16 |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes | |
|---|---|---|---|---|---|---|
| **Mand.** | **N101** | **98** | **Entity Identifier Code** | | **M** | **ID 2/3** |
| | | | BT              Bill-to-Party | | | |
| | | | Name for Mailing Address | | | |
| **Must Use** | **N102** | **93** | **Name** | | **X** | **AN 1/60** |
| | | | Name associated with the mailing address for billing | | | |

| | | |
|---|---|---|
| **Segment:** | **N3** Address Information (Mailing Address) | |
| **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:** | | |
| **Notes:** | Request: Not Used | |
| | Enrollment Accept Response: Conditional | |
| | Other Responses: Not Used | |
| | | |
| | This segment must be sent by the Utility in an Accept Response to an enrollment request when the ESCO/Marketer is the bill presenter and the mailing address differs from service address. | |
| | | |
| | N3~123 N Main St~Room 323 | |
| | N3~Large Company~Mailing Address Overflow | |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **N301** | **166** | **Address Information** | **M** | **AN 1/55** |
| | | | Mailing Address for Billing | | |
| **Cond.** | **N302** | **166** | **Address Information** | **O** | **AN 1/55** |
| | | | Mailing Address for Billing Overflow | | |

| | |
|---|---|
| **Segment:** | **N4** **Geographic Location (Mailing Address)** |
| **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:** | |
| **Notes:** | Request:                  Not Used |

Request:                     Not Used
Enrollment Accept Response: Conditional
Other Responses:             Not used

This segment must be sent by the Utility in an Accept Response to an enrollment request when the ESCO ~~/Marketer~~ is the bill presenter and the mailing address differs from service address.
N4~ANYCITY~NY~141231234~US
N4~BARBUDA CITY~~A6T 1SWB~AG

**Data Element Summary**

| | Ref.<br>Des. | Data<br>Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Must Use** | **N401** | **19** | **City Name** | **O** | **AN 2/30** |
| **Must Use** | **N402** | **156** | **State or Province Code** | **O** | **ID 2/2** |
| **Must Use** | **N403** | **116** | **Postal Code** | **O** | **ID 3/15** |
| | | | Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | | |
| **Cond.** | **N404** | **26** | **Country Code** | **O** | **ID 2/3** |
| | | | Refer to ISO 3166 for country codes | | |

| | |
|---|---|
| **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

**Notes:** Request : Required
Response:  Required

Request only one action event per LIN Loop.  The LIN01 contains a unique identifier for the action event.  The LIN03 specifies the product (electric or gas) and the LIN05 specifies the type of service request.

The enrollment request (LIN05=CE) is considered the primary service request when present.   "Secondary" action event(s) must be requested in separate LIN loops.
LIN~AACCDD0102004A~SH~EL~SH~CE     Electric Enrollment
LIN~AACCDD0102005A~SH~EL~SH~HU    Usage History
LIN~AACCDD0102006A~SH~GAS~SH~GP   Gas Profile

**Data Element Summary**

| | Ref.<br>Des. | Data<br>Element | Name | | Attributes | |
|---|---|---|---|---|---|---|
| Must Use | LIN01 | 350 | **Assigned Identification** | | O | **AN 1/20** |
| | | | The identifier supplied in this element either by itself or in conjunction with the BGN02 element from the BGN segment must uniquely identify each LIN request item over time. | | | |
| Mand. | LIN02 | 235 | **Product/Service ID Qualifier** | | M | **ID 2/2** |
| | | | SH | Service Requested | | |
| Mand. | LIN03 | 234 | **Product/Service ID** | | M | **AN 1/48** |
| | | | Only one commodity (Electric or Gas) may be indicated for each 814 transaction. | | | |
| | | | EL | Electric | | |
| | | | GAS | Gas Service | | |
| Must Use | LIN04 | 235 | **Product/Service ID Qualifier** | | X | **ID 2/2** |
| | | | SH | Service Requested | | |

**Must Use    LIN05       234      Product/Service ID                                              X    AN 1/48**

CE              Customer Enrollment

> Request to enroll this customer for Energy Services.  A Request for enrollment is considered the primary request when present.

GP              Gas Profile

> Request a 12 month forecasted gas delivery profile.  Valid only when LIN03=GAS.
>
> Gas Profiles are not supported by all utilities.  If a Gas Profile request is sent to a Utility that does not support gas profiles,  the Utility will return Historic Usage, if available, in the 867 sent in response to the Gas Profile request.   When supported, a GP request may still be rejected if there is insufficient data to develop a gas profile for that customer.

HU              Historic Usage

> Request for Usage History.
>
> GAS note: Some utilities support a Gas Profile in lieu of actual history and will  return a Gas Profile, if sufficient data exists, in the 867 sent in response to the request for Historic Usage.

| | | |
|---|---|---|
| **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:** | | |

| | |
|---|---|
| **Notes:** | Request: Required |
| | Response: Required |
| | ASI~7~021 Enrollment Request |
| | ASI~7~029 History Request |
| | ASI~WQ~021 Accept Response for an enrollment request |
| | ASI~WQ~029 Accept Response for a history request |
| | ASI~U~021 Reject Response for an enrollment request |
| | ASI~U~029 Reject Response for a history request |
| | ASI~AC~021 Acknowledge receipt of enrollment request; a response will be sent via non-EDI means. |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| **Mand.** | **ASI01** | **306** | **Action Code** | | **M ID 1/2** |
| | | | 7 | Request | |
| | | | AC | Acknowledge | |
| | | | | This code is sent to acknowledge receipt of an enrollment request for an account that is traditionally processed 'off-line'. A response for these requests will be sent via non-EDI means. A REF~1P segment may be used to provide additional clarification when this code is sent in a Response transaction. | |
| | | | U | Reject | |
| | | | WQ | Accept | |
| **Mand.** | **ASI02** | **875** | **Maintenance Type Code** | | **M ID 3/3** |
| | | | 021 | Addition | |
| | | | | Use this code to indicate the action event is an enrollment. | |
| | | | 029 | Inquiry | |
| | | | | Use this code to indicate the action event or status is associated with Historic Usage or Gas Profile requests. | |

| | | |
|---|---|---|
| **Segment:** | **REF** Reference Identification (Reject Response Reasons) | |
| **Position:** | 030 | |
| **Loop:** | LIN | Optional (Must Use) |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **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. | |
| **Notes:** | Request: Not used | |
| | Reject Response: Required (ASI01=U) | |
| | Other Responses: Not Used | |
| | REF~7G~A76 | |

**Data Element Summary**

| Mand. | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | | **M    ID 2/3** |
| | | | 7G | Data Quality Reject Reason | |
| | | | | REF02 contains a reject reason code. | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | **X    AN 1/30** |
| | | | A13 | Other | |
| | | | | See REF03 | |
| | | | A76 | Account # not valid | |
| | | | A78 | Customer Already active for marketer (Item or Service Already established, cannot add) | |
| | | | A80 | Service requested is not available | |
| | | | A91 | Account does not have service requested | |
| | | | | Requested commodity does not exist on account. | |
| | | | ABN | Account Pending with this Marketer | |
| | | | ANE | Ineligible Customer | |
| | | | | Invalid Service Class | |
| | | | | Service Class Over subscribed | |
| | | | | Customer must be submitted during enrollment period | |
| | | | ANL | ESCO/Marketer Not eligible to enroll Customer | |
| | | | | Oversubscribed | |
| | | | | Not valid in service territory | |
| | | | CAB | Customer Account Blocked | |
| | | | HUR | Historical Usage not Released | |
| | | | HUU | Historical Use not Available | |
| | | | | New Customer | |
| | | | IGP | Invalid Gas Pool ID | |
| | | | M76 | Meter Number Invalid or Not Found | |
| | | | NFI | Not first in | |
| | | | SSR | Secondary Request Rejected | |
| **Cond.** | **REF03** | **352** | **Description** | | **C    AN 1/80** |
| | | | | Additional text information may be sent in REF03 to aid in resolving a rejected transaction. REF03 must be sent if REF02 contains A13. | |

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (Response Information or Warnings) |
| **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. |
| **Notes:** | Request: Not used |
| | Response: Optional |
| | REF~1P~I01 |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| Mand. | REF01 | 128 | **Reference Identification Qualifier** | | M ID 2/3 |
| | | | 1P | Accessorial Status Code | |
| | | | | Warnings or information associated with an accepted status notification | |
| Must Use | REF02 | 127 | **Reference Identification** | | X AN 1/30 |
| | | | A13 | Other | |
| | | | | See REF03. | |
| | | | API | Application Incomplete | |
| | | | | Required Information Missing. See REF03 for details. | |
| | | | FRB | Failed to Release Billing | |
| | | | | Incorrect Billing option requested. | |
| | | | I01 | Off System Account | |
| | | | I02 | Partial Requirements Customer | |
| Cond. | REF03 | 352 | **Description** | | X AN 1/80 |
| | | | Additional text information may be sent in REF03 to clarify the details of an Accept Response. REF03 must be sent when REF02 in this segment contains A13 or API. | | |

| | | |
|---|---|---|
| **Segment:** | **REF** Reference Identification (ESCO/~~Marketer~~ Customer Account Number) | |
| **Position:** | 030 | |
| **Loop:** | LIN Optional (Must Use) | |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **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. |
| **Notes:** | Request: Conditional | |
| | Accept Responses: Optional | |
| | Other Responses: Not Used | |
| | | |
| | Must be sent on an Enrollment Request when the Utility is the bill presenter (REF*BLT=LDC).  The segment is optional in an Accept Response. | |
| | REF~11~A12345009Z | |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
| | | 11 | Account Number | | |
| | | | REF02 is the ESCO/~~Marketer~~ Assigned account number for the customer. | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
| | | | ESCO Marketer's assigned account number for the customer. | | |

| | | |
|---|---|---|
| **Segment:** | **REF** Reference Identification (Utility 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. | |
| **Notes:** | Request:   Required | |
| | Response: Required | |
| | REF~12~011231287654398 | |
| | REF~12~011231287654398~U | |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| Mand. | REF01 | 128 | Reference Identification Qualifier | M   ID 2/3 |
| | | | 12                Billing Account | |
| | | | REF02 contains the Utility-assigned account number for the customer. | |
| Must Use | REF02 | 127 | Reference Identification | X   AN 1/30 |
| | | | Utility assigned customer account number | |
| | | | The utility account number must be supplied without intervening spaces or non-alphanumeric characters.  (Characters added to aid in visible presentation on a bill, for example, should be removed) | |
| Cond. | REF03 | 352 | Description | X   AN 1/80 |
| | | | ~~The~~For utilities that support the practice of responding to requests pertaining specifically to the un-metered portion of accounts, the REF03 element in the REF*12 segment should only be sent to, or received by, ~~Orange & Rockland~~the utility when the commodity indicated in the LIN segment is Electric but the request pertains only to the un-metered portion of the electric service on the account.  This element should not be sent when the LIN request pertains to all electric service on the account. | |
| | | | U                Un-Metered Service | |

| | | |
|---|---|---|
| **Segment:** | **REF** Reference Identification (Previous Utility Account Number) | |
| **Position:** | 030 | |
| **Loop:** | LIN     Optional (Must Use) | |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **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. | |
| **Notes:** | Request:              Not Used | |
| | Accept Responses: Conditional | |
| | | |
| | This segment is required in Accept Response transactions when the utility assigned account number for the customer has changed in the last 90 days. | |
| | REF~45~9194132485705971 | |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| Mand. | REF01 | 128 | Reference Identification Qualifier | M | ID 2/3 |
| | | | 45              Old Account Number | | |
| | | | REF02 is the Utility's previous account number for the customer. | | |
| Must Use | REF02 | 127 | Reference Identification | X | AN 1/30 |
| | | | Previous Utility account number for the customer. | | |
| | | | This segment would be sent, for example, when a change in meter reading routes results in a change in the account number assigned to the customer. | | |

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (Utility Account Number for ESCO/Marketer) |
| **Position:** | 030 |
| **Loop:** | LIN     Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Request:   Conditional |
| | Response: Conditional |
| | |
| | This segment is used to communicate an account number assigned by the Utility to the ESCO/Marketer and may be sent with the mutual agreement of the parties. |
| | REF~AJ~3134597 |

**Data Element Summary**

| | Ref.<br>Des. | Data<br>Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
| | | | AJ                         Accounts Receivable Customer Account | | |
| | | | REF02 contains the Utility assigned account number for the ESCO/Marketer | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
| | | | Utility account number for the ESCO/Marketer | | |

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (Meter Cycle Code) |
| **Position:** | 030 |
| **Loop:** | LIN    Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Request:                              Not Used |
| | Enrollment Accept Response: Required |
| | Other Responses:               Not Used |
| | REF~65~A12 |
| | REF~65~18 |
| | REF~65~21~MON |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| Mand. | REF01 | 128 | Reference Identification Qualifier | M | ID 2/3 |
| | | 65 | Total Order Cycle Number | | |
| | | | Meter owner's meter reading cycle number. | | |
| Must Use | REF02 | 127 | Reference Identification | X | AN 1/30 |
| | | | A 2 or 3 character alphanumeric code indicating when meter reads are scheduled for this account.  This code would be used to obtain meter reading schedule information from a Utility's web site. | | |
| Cond. | REF03 | 352 | Description | O | AN 1/80 |
| | | | This element must be sent in an accept response to an enrollment request when the data sent in REF02 is insufficient to describe both when and how frequently the meters on the account being enrolled are scheduled to be read.   REF03 contains a code indicating the usage period that will be reported when regularly scheduled usage information is sent in an 867 transaction. | | |
| | | BIM | Bimonthly | | |
| | | MON | Monthly | | |
| | | QTR | Quarterly | | |

|  |  |
|---|---|
| **Segment:** | **REF** Reference Identification (Bill Cycle Code) |
| **Position:** | 030 |
| **Loop:** | LIN     Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Request:                            Not Used |
|  | Enrollment Accept Response: Required |
|  | Other Responses:              Not Used |
|  | REF~BF~18 |
|  | REF~BF~17~MON |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| Mand. | REF01 | 128 | **Reference Identification Qualifier** | M | ID 2/3 |
| | | | BF                    Billing Center Identification | | |
| | | | Billing cycle.  Cycle number indicating when this customer is scheduled for billing. | | |
| Must Use | REF02 | 127 | **Reference Identification** | X | AN 1/30 |
| | | | A 2 digit code indicating when a scheduled bill is prepared for the customer. Some companies may bill on a cycle other than the read cycle.  In this case this code could be used to retrieve the scheduled billing date from the utility's web site. | | |
| Cond. | REF03 | 352 | **Description** | O | AN 1/80 |
| | | | When present, indicates the frequency with which the account is billed by the utility. This element should be sent in an accept response to an enrollment request  when information regarding the bill cycle codes on the web site or the data sent in REF02 is insufficient to describe both when and how frequently the account being enrolled is scheduled to be billed. | | |
| | | | BIM                    Bimonthly | | |
| | | | MON                    Monthly | | |
| | | | QTR                    Quarterly | | |

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (Bill Presenter) |
| **Position:** | 030 |
| **Loop:** | LIN Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |

**Notes:**

Enrollment Requests: Required
Enrollment Accept Responses: Required
Other Requests/Responses: Not Used

This segment is sent to identify which entity will present the bill to the customer.  It must be present in Enrollment Request and Enrollment Accept Response transactions.
REF~BLT~DUAL
REF~BLT~LDC
REF~BLT~ESP
REF~BLT~ESP~AGENT

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes | |
|---|---|---|---|---|---|---|
| Mand. | REF01 | 128 | Reference Identification Qualifier | | M | ID 2/3 |
| | | | BLT | Billing Type | | |
| | | | | Data in the REF02 and 03 elements in this segment in conjunction with data transmitted in the REF*PC segment (Bill Calculator) describes the customer's bill option e.g. a consolidated bill issued by the Utility, a consolidated bill issued by the ESCO or separate bills presented by each party. | | |
| Must Use | REF02 | 127 | Reference Identification | | X | AN 1/30 |
| | | | DUAL | Each Party Presents a separate Bill | | |
| | | | ESP | ESCO/Marketer is the consolidated Bill Presenter | | |
| | | | | This code should be used when the E/MESCO is operating under the Single Retailer model or the NY Billing Agency Model.  REF03 must be used when there is a "NY Billing Agency" relationship. | | |
| | | | LDC | Utility is the consolidated Bill Presenter | | |
| Cond. | REF03 | 352 | Description | | X | AN 1/80 |
| | | | | The literal 'AGENT' should be present in the REF03 when REF02 = ESP and the NY Billing agency model will apply to the account being enrolled. | | |

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (Bill Calculator) |
| **Position:** | 030 |
| **Loop:** | LIN        Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Enrollment Requests:              Required |
| | Enrollment Accept Responses:  Required |
| | Other Requests/Responses:       Not Used |
| | |
| | This segment is used to identify which entity will calculate the billed charges that will appear on the customer's bill.  This segment in conjunction with the REF*BLT segment is used to designate the customer's bill option. |
| | The segment is required on Enrollment Requests and Enrollment Accept Response transactions. |
| | REF~PC~DUAL |
| | REF~PC~LDC |

**Data Element Summary**

| Mand. | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
| | | | PC | Production Code | |
| | | | | Indicates who will calculate billed charges. | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
| | | | DUAL | Each Party Calculates its own charges. | |
| | | | | DUAL applies when: Each party presents their own bill  (Used when REF*BLT segment contains DUAL) or the ~~E/M~~ESCO is a Single Retailer (Used when REF*BLT segment contains ESP), or the BILL READY method is used for consolidated billing, e.g. | |
| | | | | Utility sends an 810 transaction to the ESCO~~/Marketer~~ with bill ready utility charges fully calculated (Used when REF~BLT segment contains ESP) OR ESCO~~/Marketer~~ sends an 810 transaction to the Utility with bill ready ~~E/M~~ESCO charges fully calculated (Used when REF~BLT segment contains LDC). | |
| | | | LDC | The Utility Calculates the ESCO~~/Marketer~~ Charges | |
| | | | | RATE READY: The ESCO~~/Marketer~~ supplies a rate code or price to the Utility and the Utility calculates the ~~ESCO/Marketer's~~ESCO's portion of the consolidated bill. | |

| | | |
|---|---|---|
| **Segment:** | **REF** Reference Identification (Current Budget Billing Status) | |
| **Position:** | 030 | |
| **Loop:** | LIN Optional (Must Use) | |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **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. | |
| **Notes:** | Enrollment Request: Conditional | |
| | Enrollment Accept Response: Conditional | |
| | Other Requests/Responses: Not Used | |
| | | |
| | This segment must be sent in Enrollment Request transactions (except for Single Retailer) when the ESCO/Marketer expects the customer being enrolled to be on budget billing for the E/MESCO charges.  Must be present in an Enrollment Accept Response transaction when the customer being enrolled is on budget billing for the Utility charges. REF~NR~Y | |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M ID 2/3** |
| | | | NR Progress Payment Number | |
| | | | The enrolling customer is on budget billing. | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X AN 1/30** |
| | | | Y The enrolling customer is, or will be, on budget billing. | |
| | | | On an Enrollment Request, this segment indicates the enrolling customer will be on budget billing for the E/MESCO charges. On an Accept Response, this segment indicates the customer being enrolled is currently on budget billing for Utility charges. | |

**Segment:** **REF** Reference Identification (E/MESCO Late Fees)
**Position:** 030
**Loop:** LIN Optional (Must Use)
**Level:** Detail
**Usage:** Optional (Dependent)
**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.
**Notes:** Request: Conditional
Responses: Conditional

This segment is used to indicate whether or not the billing party should assess late fees, at 1.5%, on E/MESCO past due charges. This Where required by the utility, this segment must be sent in Request transactions transmitted to National Fuelthe utility, when the customer's bill option is Utility Rate Ready consolidated billing and the payment processing method is Pay-As-You-Get-Paid.
National FuelA utility may return this segment in an Accept Response transaction if present in the Request transaction.
REF~LF~N2
REF~LF~Y2

**Data Element Summary**

| Mand. | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | | **M ID 2/3** |
| | | | LF | Assembly Line Feed Location | |
| | | | | E/MESCO Late Fee Indicator | |
| | | | | Late fees will/will not be assessed by the Billing Party on E/MESCO past due amounts for the account being enrolled. | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | **X AN 1/30** |
| | | | N2 | Late fees should NOT be assessed by the Billing Party on E/MESCO past due amounts. | |
| | | | Y2 | Late fees should be assessed by the Billing Party on E/MESCO past due amounts. | |

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (Partial Participation Portion) |
| **Position:** | 030 |
| **Loop:** | LIN    Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Enrollment Request:           Conditional. |
| | Enrollment Accept Response:  Conditional |
| | Other Responses:              Not Used |
| | |
| | This segment must be present in an Enrollment Request transaction to indicate the portion of load to be served by the ESCO/Marketer when the customer being enrolled is a partial requirements customer.  This segment will be returned in an Enrollment Accept Response to confirm the portion of load to be served by the E/MESCO. |
| | REF~PGC~B |
| | REF~PGC~T |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
| | | | PGC          Packing Group Code | | |
| | | | Partial Participation Portion Data in REF02 indicates what portion of the customer's load the E/MESCO will supply when the customer is a partial requirements customer of the Utility due to their participation in economic growth incentive programs. | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
| | | | B          Base Only | | |
| | | | T          Total Load | | |

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (Customer on Life Support) |
| **Position:** | 030 |
| **Loop:** | LIN     Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Enrollment Requests:          Conditional |
| | Enrollment Accept Response:  Optional |
| | Other Requests/Responses:    Not Used |
| | |
| | This segment must be present in an Enrollment Request transaction for the Single Retailer Model.  This segment may be sent in an Enrollment Accept Response at the discretion of the Utility. |
| | REF~SU~Y |
| | REF~SU~N |
| | REF~SU~I |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| Mand. | REF01 | 128 | Reference Identification Qualifier | M | ID 2/3 |
| | | | SU          Special Processing Code | | |
| | | | Life support equipment verification.  Customer requires life support equipment. | | |
| Must Use | REF02 | 127 | Reference Identification | X | AN 1/30 |
| | | | I          Investigating whether life support is required | | |
| | | | N          Life Support Not Required | | |
| | | | Y          Life Support Required | | |

| | | |
|---|---|---|
| **Segment:** | **REF** Reference Identification (Gas Pool ID) | |
| **Position:** | 030 | |
| **Loop:** | LIN | Optional (Must Use) |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **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. |

| | |
|---|---|
| **Notes:** | Enrollment Request:          Conditional. |
| | Enrollment Accept Response:  Conditional |
| | Other Requests/Responses:    Not Used |
| | |
| | This segment must be sent when the Enrollment Request is for Gas service and the E/MESCO has been assigned more than one Gas Pool ID for their customers.  It will be returned in the Accept Response if sent on the Request. |
| | REF~VI~211234567 |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
| | | | VI          Pool Number | | |
| | | | Gas Pool IDs are assigned to a gas marketer by the Utility and are used to define a unique sub-grouping of customers. | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
| | | | Gas Pool ID associated with the customer being enrolled. | | |

| | | |
|---|---|---|
| **Segment:** | **REF** Reference Identification (Gas Capacity Assignment/Obligation) | |
| **Position:** | 030 | |
| **Loop:** | LIN | Optional (Must Use) |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **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. |

| **Notes:** | Enrollment Request: Conditional (Gas Only) |
|---|---|
| | Enrollment Accept Response: Conditional |
| | Other Requests/Responses: Not Used |
| | |
| | Use this segment to convey intended or obligated pipeline capacity requirements necessary to meet the needs of the end use customer. Not used when commodity is electric. Required on the Request when supported by the Utility. Will be returned on an Accept Response when received on the Request and supported by the Utility. |
| | REF~GC~Y |
| | REF~GC~N |

### Data Element Summary

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
| | | GC | Government Contract Number | | |
| | | | Gas Capacity Assignment/Obligation | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
| | | N | No: ~~E/M~~ESCO elects, or must, arrange for capacity for the customer being enrolled | | |
| | | Y | Yes: ~~E/M~~ESCO wants, or must take, the Utility release or assignment of its pipeline capacity for the customer being enrolled | | |

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (Gas Supply Service Option) |
| **Position:** | 030 |
| **Loop:** | LIN    Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Enrollment Request:               Conditional |
| | Enrollment Accept Response:  Conditional |
| | Other Requests/Responses:      Not Used |
| | |
| | ~~Must~~Where required by the utility, must be present in all Gas Enrollment Requests sent to ~~Orange & Rockland or National Grid~~the utility to indicate the type of service option selected for the customer being enrolled.  May be sent in other service territories at the discretion of the utility. |
| | Will be returned in the Enrollment Accept Response when present on the Request to confirm ~~E/M~~ESCO supply option. |
| | REF~GS~B |
| | REF~GS~B~MONTHLY |
| | REF~GS~S |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | | **M    ID 2/3** |
| | | | GS | General Services Administration Regulations (GSAR) | |
| | | | | Gas Supply Option | |
| | | | | The value in REF02 indicates how an ESCO~/Marketer~ intends to service their gas supply obligation for the customer being enrolled. | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | **X    AN 1/30** |
| | | | B | Balancing Option | |
| | | | | ~~E/M~~ESCO must deliver gas to the Company on behalf of its customer, with the Company redelivering the gas to the customer on an as needed basis. | |
| | | | S | Storage Option | |
| | | | | Under the Functional Storage Service Option the ~~E/M~~ESCO must deliver gas to the Company on behalf of its customer in excess of the Customer's average daily usage or actual needs from April through October, with the Company redelivering that excess gas from November through March, along with additional gas delivered by the ~~E/M~~ESCO during those months. | |
| **Cond.** | **REF03** | **352** | **Description** | | **X    AN 1/80** |
| | | | | When REF02 contains a "B" for balancing service, a REF03 must be sent to qualify the balancing service option. | |
| | | | | Examples:  Daily; Monthly | |

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (Human Needs Customer) |
| **Position:** | 030 |
| **Loop:** | LIN Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Enrollment Request: Conditional |
| | Other Requests/Response: Not Used |

ThisWhere required by the utility, this segment must be present in Requests sent to National Grid when the commodity is gas and the non-residential customer being enrolled meets the definition of a Human Needs Customer as found in National Grid'sthe utility's tariff. Generally, Human Needs Customers are defined as accounts that rely solely on gas for heating that are residential in character such as facilities which house patients or residents on an overnight basis (hospitals or prisons) or critical care accounts (nursing or other acute care facilities).

This segment may be provided in Gas Enrollment Requests sent to other utilities with the mutual agreement of the trading partners.

ALC~Y
ALC~N

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| Mand. | REF01 | 128 | **Reference Identification Qualifier** | M | ID 2/3 |
| | | | ALC Agency Location Code | | |
| Must Use | REF02 | 127 | **Reference Identification** | X | AN 1/30 |
| | | | N This customer is NOT a human needs customer | | |
| | | | Y This customer is a human needs customer | | |

| | | |
|---|---|---|
| **Segment:** | **REF** | **Reference Identification (ISO Location Based Marginal Pricing Zones)** |
| **Position:** | 030 | |
| **Loop:** | LIN | Optional (Must Use) |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **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. |
| **Notes:** | | Enrollment Requests:        Not Used |
| | | Enrollment Accept Responses:   Conditional |
| | | Other Requests/Responses:     Not Used |
| | | |
| | | ELECTRIC ONLY: This segment must be present on all Accept Responses for Electric enrollments. |
| | | REF~SPL~A |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
| | | SPL | Standard Point Location Code (SPLC) | | |
| | | | REF02 contains the ISO Assigned code for New York Location Based Pricing Zones when service type is EL. This is the pricing zone for the account being enrolled. | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
| | | | A code assigned by the ISO that represents a location based marginal pricing zone.  Valid Values for REF02: | | |
| | | | A | WEST | |
| | | | B | GENESEE | |
| | | | C | CENTRL | |
| | | | D | NORTH | |
| | | | E | MHK VALLEY | |
| | | | F | CAPITL | |
| | | | G | HUD VALLEY | |
| | | | H | MILL WD | |
| | | | I | DUNWOD | |
| | | | J | N.Y.C. | |
| | | | K | LONGIL | |
| | | | M | HQ | |
| | | | O | OH | |
| | | | P | PJM | |

|  |  |  |
|---|---|---|
| **Segment:** | **REF** Reference Identification (Portion Taxed Residential) | |
| **Position:** | 030 | |
| **Loop:** | LIN | Optional (Must Use) |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **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. |
| **Notes:** | Enrollment Requests: | Conditional |
| | Enrollment Accept Responses: | Optional |
| | Other Requests/Responses: | Not Used |

ThisWhere required by the utility, this segment must be sent on Requests to National Grid and Orange & Rocklandthe utility when (1) the bill option requested is Utility rate ready consolidated billing, and (2) the account being enrolled is a non-residential account but a portion of the account is taxed at a residential rate. This segment may be returned by the Utility in an Accept Response.
REF~RP~20
REF~RP~25

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | | **M ID 2/3** |
| | | | RP | Repetitive Pattern Code | |
| | | | | Portion Taxed Residential The value sent in REF02 indicates the portion of the non-residential account being enrolled that is taxed at a residential rate. | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | **X AN 1/30** |
| | | | The following codes are to be used: | | |
| | | | 20 | - 10 % Residential Use | |
| | | | 21 | - 20% Residential Use | |
| | | | 22 | - 30% Residential Use | |
| | | | 23 | - 40% Residential Use | |
| | | | 24 | - 50% Residential Use | |
| | | | 25 | - 60% Residential Use | |
| | | | 26 | - 70% Residential Use | |
| | | | 27 | - Residential Use is 75% or greater | |

| | Segment: | **REF** Reference Identification (Account Settlement Indicator) |
|---|---|---|
| **Position:** | 030 | |
| **Loop:** | LIN | Optional (Must Use) |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **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. |
| **Notes:** | | Enrollment Requests:      Not Used |
| | | Enrollment Accept Responses:      Required, for electric accounts only |
| | | This indicator reflects how the usage is settled with NYISO, not necessarily how the usage is metered. |
| | | REF~TDT~C |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| Mand. | REF01 | 128 | Reference Identification Qualifier | M | ID 2/3 |
| | | TDT | Technical Documentation Type | | |
| | | | Account Settlement Indicator | | |
| Must Use | REF02 | 127 | Reference Identification | X | AN 1/30 |
| | | | The following codes are to be used: | | |
| | | C | Class Load Shape | | |
| | | H | Hourly | | |
| | | M | Mixed | | |
| | | | Account is settled with the NYISO with both Class Shape and Hourly data. | | |

| | | |
|---|---|---|
| **Segment:** | **REF** Reference Identification (NYPA Discount Indicator) | |
| **Position:** | 030 | |
| **Loop:** | LIN Optional | |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **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. |
| **Notes:** | Enrollment Requests: Not Used | |
| | Enrollment Accept Responses: Required for Electric accounts, if available in the utility's system and the utility does not otherwise provide the indicator through a non-EDI means. | |
| | | |
| | REF~YP~Y | |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
| | | | YP Selling Arrangement | | |
| | | | NYPA Discount Indictor. The customer receives any special incentives from the New York Power Authority. | | |
| Must Use | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
| | | | The following codes are to be used: | | |
| | | | N No, the customer does not participate in NYPA Discount Indictaor | | |
| | | | Y Yes, the customer participates in NYPA Discount Indicator | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Segment:** | **REF** **Reference Identification (Utility Discount Indicator)** | | | | | |
| **Position:** | 030 | | | | | |
| **Loop:** | LIN Optional (Must Use) | | | | | |
| **Level:** | Detail | | | | | |
| **Usage:** | Optional (Dependent) | | | | | |
| **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. | | | | | |

**Notes:**
Enrollment Requests: Not Used
Enrollment Accept Responses: Required for non-residential accounts

Required for non-residential accounts where the customer receives a commodity discount from the utility or a delivery discount that is dependent upon purchase of commodity from the utility. Further, the indicator should be set to "N" in cases where all non-residential customers in a rate class or service receive the same discount or when the delivery discount is portable, i.e. it applies whether the customer purchases commodity from the ESCO or the utility.

REF~SG~N

### Data Element Summary

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
| | | | SG Savings Utility Discounts/Incentive Rate | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
| | | | The following codes are to be used: | | |
| | | | N No, there are not Utility Discounts/Incentive Rates | | |
| | | | Y Yes, there are Utility Discounts/Incentive Rates | | |

|  |  |
|---|---|
| **Segment:** | **REF** Reference Identification (**Industrial Classification Code**) |
| **Position:** | 030 |
| **Loop:** | LIN    Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Enrollment Request:            Not Used |
|  | Enrollment Accept Response:  Conditional |
|  |  |
|  | Required if available in utility's system |
|  |  |
|  | REF~IJ~123456~NAISC |
|  | REF~IJ~1234~SIC |

**Data Element Summary**

| Cond. | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| **Cond.** | **REF01** | **128** | **Reference Identification Qualifier** | **M** | **ID 2/3** |
|  |  |  | IJ        Standard Industry Classification (SIC) Code |  |  |
|  |  |  | Standard Industry Classification (SIC) Code, or North American Industry Classification System (NAISC) Code |  |  |
| **Must Use** | **REF02** | **127** | **Reference Identification** | **X** | **AN 1/30** |
|  |  |  | SIC or NAISC Code as stored in the Utility's system |  |  |
| **Must Use** | **REF03** | **352** | **Description** | **X** | **AN 1/80** |
|  |  |  | NAISC        Value contained in REF02 is an NAISC code |  |  |
|  |  |  | SIC          Value contained in REF02 is an SIC code |  |  |

**Segment:** **REF** **Reference Identification (Utility Tax Exempt Status)**
**Position:** 030
**Loop:** LIN       Optional (Must Use)
**Level:** Detail
**Usage:** Optional (Dependent)
**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.
**Notes:** Enrollment Requests:              Not Used
Enrollment Accept Responses:     Required

The Utility Tax Exempt Status signifies the existence of exemptions and/or certifications, if any, held by the utility, that are used to bill the customer for utility services.  The indicator is informational only; the utility's exemption is not transferable to the ESCO to bill the customer for ESCO services.  The ESCO should not rely upon the utility's information for billing purposes and should contact the customer to obtain necessary information consistent with the requirements of the New York State Department of Taxation & Finance and any applicable laws.

REF~TX~Y

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| Mand. | REF01 | 128 | Reference Identification Qualifier | M | ID 2/3 |
| | | | TX        Tax Exempt Number | | |
| | | | Indicates the Utility's Tax Exemption Status at the time the transaction is created. | | |
| Must Use | REF02 | 127 | Reference Identification | X | AN 1/30 |
| | | | The following codes are to be used: | | |
| | | | N        No, the customer is fully taxed for distribution charges at the time the transaction is created. | | |
| | | | Y        Yes, customer has some level of tax exemption for distribution charges at the time the transaction is created. | | |

|  | **Segment:** | **DTM** Date/Time Reference (Assigned Service Start Date) |
|---|---|---|
|  | **Position:** | 040 |
|  | **Loop:** | LIN        Optional (Must Use) |
|  | **Level:** | Detail |
|  | **Usage:** | Optional (Dependent) |
|  | **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:**

**Notes:**
| | |
|---|---|
| Requests: | Not used |
| Enrollment Accept Responses: | Required |
| Other Requests/Responses: | Not Used |

DTM~150~20020313

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| Mand. | DTM01 | 374 | Date/Time Qualifier | M | ID 3/3 |
| | | 150 | Service Period Start | | |
| Must Use | DTM02 | 373 | Date | X | DT 8/8 |

The Utility will return the effective start date for an enrollment in their accept response in the form CCYYMMDD.

| | |
|---|---|
| **Segment:** | **AMT** Monetary Amount (~E/M~ESCO Budget Plan Installment Amount) |
| **Position:** | 060 |
| **Loop:** | LIN      Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **Max Use:** | 1 |
| **Purpose:** | To indicate the total monetary amount |
| **Syntax Notes:** | |
| **Semantic Notes:** | |
| **Notes:** | Request:     Conditional |
| | Responses:   Conditional |

~This~Where required by the utility, this segment must be sent in a Request transaction to communicate the monthly budget plan installment amount to be displayed on the ~E/Ms~ESCOs portion of the consolidated bill when the Request is sent to ~National Fuel Gas,~ the ~customers~utility, the customer's bill option is Utility Rate Ready and the REF*NR segment indicates that the customer is on a budget plan for ~E/M~ESCO charges. This segment may be returned by ~National Fuel~the utility in the Response transaction if present in the Request.
AMT~B5~100
AMT~B5~20

**Data Element Summary**

| | Ref.<br>Des. | Data<br>Element | Name | Attributes |
|---|---|---|---|---|
| Mand. | AMT01 | 522 | Amount Qualifier Code | M   ID 1/3 |

      B5        Budgeted

~E/M~ESCO Budget Plan Installment Amount

The amount in AMT02 is the budget plan installment amount the customer is expected to pay each month for the period covered by the customer's budget plan with the ~E/M~ESCO.

| | Ref.<br>Des. | Data<br>Element | Name | Attributes |
|---|---|---|---|---|
| Mand. | AMT02 | 782 | Monetary Amount | M   R 1/18 |

This element is a real number.  Real numbers are assumed to be positive unless preceded by a minus sign.  In this instance, budget installment amounts are whole numbers and will always be positive.  See Front Matter notes regarding syntax for real number elements.

| | |
|---|---|
| **Segment:** | **AMT** **Monetary Amount (E/MESCO Budget Plan Balance)** |
| **Position:** | 060 |
| **Loop:** | LIN Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **Max Use:** | 1 |
| **Purpose:** | To indicate the total monetary amount |
| **Syntax Notes:** | |
| **Semantic Notes:** | |
| **Notes:** | Enrollment Requests:   Conditional |
| | Other Requests:         Not Used |
| | Responses:                Not Used |

ThisWhere required by the utility, this segment should be sent in Enrollment Request transactions sent to National Fuel Gasthe utility to communicate the balance on a pre-existing budget plan for E/MESCO charges when the customerscustomer's bill option is changing to Utility Rate Ready consolidated billing, the REF*NR indicates the customer is on budget billing for E/MESCO charges and the customer has a budget plan balance for a period prior to the current enrollment.
AMT~BD~-149.25  (The balance is a credit of $149.25)
AMT~BD~86.01  (The balance is a debit of $86.01)

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| **Mand.** | **AMT01** | **522** | **Amount Qualifier Code** | **M    ID 1/3** |
| | | | BD            Balance Due | |
| | | | E/MESCO Budget Plan Balance | |
| | | | The amount in AMT02 is the balance on a budget plan for the customer that pre-dates the current enrollment. | |
| **Mand.** | **AMT02** | **782** | **Monetary Amount** | **M    R 1/18** |
| | | | This element is a real number and is assumed to be a positive number unless preceded by a (-) minus sign.  Real numbers do not have an implied decimal point; a decimal point must be sent when decimal precision is necessary. | |

| | |
|---|---|
| **Segment:** | **AMT** Monetary Amount (Tax Exemption Percent) |
| **Position:** | 060 |
| **Loop:** | LIN     Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **Max Use:** | 1 |
| **Purpose:** | To indicate the total monetary amount |
| **Syntax Notes:** | |
| **Semantic Notes:** | |
| **Notes:** | Enrollment Requests:          Conditional. |
| | Other Requests/Responses:  Not Used |
| | |
| | This segment is used to indicate that the ~~ESCO/Marketers~~ESCOs service is exempt from tax.  A tax exemption certificate must be obtained from the customer and retained by the ESCO~~/Marketer~~ to support this designation. This segment must be sent on an Enrollment Request when (1) the billing option is Utility Rate Ready consolidated billing and the ~~ESCO/Marketers~~ESCOs service is tax exempt.   This segment is not applicable to the Single Retailer Model. |
| | AMT~DP~1 |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| **Mand.** | **AMT01** | **522** | **Amount Qualifier Code** | **M    ID 1/3** |
| | | | DP          Exemption | |
| | | | Tax Exempt Percent:  This code is used when the ~~ESCO/Marketers~~ESCOs service is exempt from tax.  See AMT02 for valid values. | |
| **Mand.** | **AMT02** | **782** | **Monetary Amount** | **M    R 1/18** |
| | | | For percentage values, the whole number "1" will represent 100 percent; decimal numbers less than "1" represent percentages. | |

| | |
|---|---|
| **Segment:** | # AMT **Monetary Amount (Commodity Price)** |
| **Position:** | 060 |
| **Loop:** | LIN     Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **Max Use:** | 1 |
| **Purpose:** | To indicate the total monetary amount |
| **Syntax Notes:** | |
| **Semantic Notes:** | |
| **Notes:** | Enrollment Requests:             Conditional. |

Enrollment Accept Responses: Conditional
Other Requests/Responses:     Not Used

This segment must be sent on an Enrollment Request when (1) the bill option requested is Utility Rate Ready consolidated billing AND (2) the E/MESCO intends to charge its customer a fixed unit price for all metered consumption.  This segment will be returned on an Accept Response if sent on the Request.
When an Enrollment Accept Response transaction is initiated by the utility but there is no corresponding Request transaction, this segment and/or the AMT*FW segment in the Response may contain "0" or a dummy number assigned by the utility (in these instances a Change transaction may be sent by the E/MESCO to provide the actual commodity price, where applicable).
AMT~RJ~.015
AMT~RJ~.05
AMT~RJ~0

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| **Mand.** | **AMT01** | **522** | **Amount Qualifier Code** | **M   ID 1/3** |
| | | | RJ                  Rate Amount | |

AMT02 contains the E/MESCO commodity price per unit of consumption that should be used to calculate the customer's billed charges expressed as a monetary amount.  This amount will apply to consumption for all service points for the account being enrolled.

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| **Mand.** | **AMT02** | **782** | **Monetary Amount** | **M   R 1/18** |

This element is a real number.  See Front Matter Notes regarding the syntax for real numbers.

| | | |
|---|---|---|
| **Segment:** | **AMT** Monetary Amount (~~E/M~~ESCO Fixed Charge) | |
| **Position:** | 060 | |
| **Loop:** | LIN Optional (Must Use) | |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **Max Use:** | 1 | |
| **Purpose:** | To indicate the total monetary amount | |
| **Syntax Notes:** | | |
| **Semantic Notes:** | | |
| **Notes:** | Request: Conditional | |
| | Response: Conditional | |

Request: Conditional
Response: Conditional

This segment is sent by the ~~E/M~~ESCO when the customer's bill option is Utility Rate Ready consolidated billing and the ~~E/M~~ESCO wants to bill the customer for a fixed charge amount in addition to, or instead of, a variable unit price for a commodity. At the discretion of the Utility, this segment may be echoed back in the Enrollment Response transaction.
When an Enrollment Accept Response transaction is initiated by the utility but there is no corresponding Request transaction, this segment and/or the AMT*RJ segment in the Response may contain "0" or a dummy number assigned by the utility (in these instances a Change transaction may be sent by the ~~E/M~~ESCO to provide the actual commodity price, where applicable).
AMT~FW~2.00
AMT~FW~10
AMT~FW~0

**Data Element Summary**

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

| | |
|---|---|
| **Segment:** | **AMT** Monetary Amount [Customer's Tax Rate for ~~E/M~~ESCO Charges - 1) |
| **Position:** | 060 |
| **Loop:** | LIN Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **Max Use:** | 1 |
| **Purpose:** | To indicate the total monetary amount |
| **Syntax Notes:** | |
| **Semantic Notes:** | |
| **Notes:** | Enrollment Requests: Conditional |
| | Enrollment Accept Responses: Conditional |
| | Other Requests/Responses: Not Used |
| | |
| | This segment may be sent in a Request when the bill option for the customer being enrolled is Utility Rate Ready consolidated billing and the utility requires the ESCO to provide the tax rate via EDI at the time of enrollment. This segment should be returned on an Accept Response if sent in the Request. |
| | When a portion of the service is taxed at a residential rate (see REF*RP segment), the residential tax rate should be provided in this AMT segment and the commercial tax rate applicable to the remaining portion of the service should be transmitted in the AMT*9N segment. |
| | AMT~9M~.0325 |

**Data Element Summary**

| Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|
| ~~Cond~~**Mand.** | AMT01 | 522 | Amount Qualifier Code | ~~O~~ ID 1/3 **M** |
| | | 9M | Tax Adjustments | |
| | | | The rate in AMT02 is the tax rate that should be used by the utility to calculate tax amounts associated with the ~~E/Ms~~ESCOs charges when the customer's bill option is Utility Rate Ready consolidated billing. | |
| **Mand.** | AMT02 | 782 | **Monetary Amount** | M R 1/18 |
| | | | This element is a real number. See Front Matter Notes regarding the syntax for real numbers. | |

| | |
|---|---|
| **Segment:** | **AMT** **Monetary Amount [Customer's Tax Rate for ~~E/M~~ESCO Charges - 2)** |
| **Position:** | 060 |
| **Loop:** | LIN        Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **Max Use:** | 1 |
| **Purpose:** | To indicate the total monetary amount |
| **Syntax Notes:** | |
| **Semantic Notes:** | |
| **Notes:** | Enrollment Requests:            Conditional |
| | Enrollment Accept Responses:  Conditional |
| | Other Requests/Responses:      Not Used |
| | |
| | This segment is sent in a Request to provide the commercial tax rate applicable to a portion of the ~~customers~~customer's service when (1) the bill option for the customer being enrolled is Utility Rate Ready consolidated billing, (2) the utility requires the ESCO to provide the tax rate via EDI at the time of enrollment, and (3) a residential tax rate applies to a portion of the ~~customers~~customer's service (see REF*RP) and the balance is taxed at a commercial rate. |
| | This segment should be returned on an Accept Response if sent in the Request. |
| | AMT~9N~.045 |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| Mand. | AMT01 | 522 | Amount Qualifier Code | M    ID 1/3 |
| | | | 9N                Tax Balance | |
| | | | The rate in AMT02 is the tax rate that should be used by the utility to calculate tax amounts associated with the ~~E/Ms~~ESCOs charges applicable to the portion of the ~~customers~~customer's service taxed at a commercial rate. | |
| Mand. | AMT02 | 782 | Monetary Amount | M    R 1/18 |
| | | | This element is a real number.  See Front Matter Notes regarding the syntax for real numbers. | |

| | |
|---|---|
| **Segment:** | **AMT** Monetary Amount (~~Electric Capacity Assignment~~ICAP) |
| **Position:** | 060 |
| **Loop:** | LIN      Optional (Must Use) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **Max Use:** | 1 |
| **Purpose:** | To indicate the total monetary amount |
| **Syntax Notes:** | |
| **Semantic Notes:** | |
| **Comments:** | |
| **Notes:** | ~~Enrollment Accept Responses:~~ Utility Request: Conditional |
| | ~~Other Requests/Responses:~~ ESCO Response: Not Used |
| | |
| | ~~ELECTRIC ONLY:    This segment will be returned by Orange & Rockland on Accept Responses for electric enrollments only.~~ESCO Request: Not Used |
| | Utility Response: Not Applicable |
| | |
| | Sent for Electric accounts, if available, to report a change in the customer's peak load contribution for Electric Service. |
| | |
| | AMT03 is a general indicator; i.e. it is not tied to any specific program |
| | |
| | AMT~KZ~.015 |
| | AMT~KZ~0.15~Y |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| **Mand.** | **AMT01** | **522** | **Amount Qualifier Code** | **M    ID 1/3** |
| | | | KZ            ~~Mortgagor's Monthly Obligations~~Corrective Action Requests - Written | |
| | | | ~~Electric Capacity Assignment~~ | |
| | | | ~~The peak load contribution for Transmission service calculations for the electric customer being enrolled.~~ICAP Tag | |
| **Mand.** | **AMT02** | **782** | **Monetary Amount** | **M    R 1/18** |
| | | | For percentage values, the whole number "1" represents 100 percent; decimal numbers less than "1" represent percentages from 1 percent to 99.99 percent. | |
| | **AMT03** | **478** | **Credit/Debit Flag Code** | **O    ID 1/1** |
| | | | C            Credit | |
| | | | Yes, there is a Special Program Adjustment Indicator related to the ICAP Tag.  For example, a NYPA adjustment has been applied. | |
| | | | D            Debit | |
| | | | No, there is no Special Program Adjustment Indicator related to the ICAP Tag. | |

**Segment:** **DTM** **Date/Time Reference (ICAP Effective Dates)**

|  |  |
|---|---|
| **Position:** | 040 |
| **Loop:** | LIN        Optional |
| **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:** | Accept Response: Required |
|  | Reject Response: Not Used |
|  | DTM*AB4****RD8*20140601-20150531 |

### Data Element Summary

| | Ref. Des. | Data Element | Name | | Attributes | |
|---|---|---|---|---|---|---|
| **Mand.** | **DTM01** | **374** | **Date/Time Qualifier** | | **M** | **ID 3/3** |
| | | AB4 | Time Period | | | |
| | | | ICAP Tag Effective Dates | | | |
| **Must Use** | **DTM05** | **1250** | **Date Time Period Format Qualifier** | | **X** | **ID 2/3** |
| | | RD8 | Range of Dates Expressed in Format CCYYMMDD-CCYYMMDD | | | |
| **Must Use** | **DTM06** | **1251** | **Date Time Period** | | **X** | **AN 1/35** |
| | | | Period expressed in the format CCYYMMDD-CCYYMMDD | | | |

| | |
|---|---|
| **Segment:** | **NM1** Metered or Un-Metered Service Points |
| **Position:** | 080 |
| **Loop:** | NM1     Optional (Dependent) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |

**Notes:**

Enrollment Requests:        Conditional.
Enrollment Accept Responses:    Required
Other Requests/Responses:      Not Used

This segment must be sent in an Enrollment Request when the bill option is Utility Rate Ready consolidated billing and the ESCO/Marketer charges will be calculated based on Rate Codes (see REF~RB) rather than a commodity price (see REF~RJ).

This segment is required in an Accept Response to an enrollment request to identify each metered service delivery point and/or to describe un-metered services on the account being enrolled.
NM1~MQ~3~~~~~~32~A1234567      Refers to a specific Meter
NM1~MQ~3~~~~~~93~UNMETERED    Refers to un-metered services
NM1~MQ~3~~~~~~93~ALL            Refers to all service points

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes | |
|---|---|---|---|---|---|---|
| **Mand.** | **NM101** | **98** | **Entity Identifier Code** | | **M** | **ID 2/3** |
| | | | MQ | Metering Location | | |
| | | | | Indicates that this NM1 loop contains service delivery point or meter related information. | | |
| **Mand.** | **NM102** | **1065** | **Entity Type Qualifier** | | **M** | **ID 1/1** |
| | | | 3 | Unknown | | |
| | | | | NM102 is an X12 required element. | | |
| **Must Use** | **NM108** | **66** | **Identification Code Qualifier** | | **X** | **ID 1/2** |
| | | | 32 | Assigned by Property Operator | | |
| | | | | Use when NM109 will contain a meter number. | | |
| | | | 93 | Code assigned by the organization originating the transaction set | | |
| | | | | Use when NM109 will contain the literal "UNMETERED" or "ALL". | | |
| **Must Use** | **NM109** | **67** | **Identification Code** | | **X** | **AN 2/80** |

When NM108 = 32, NM109 must contain a meter number
When NM108 = 93, NM109 will contain EITHER the literal "UNMETERED" for all un-metered service on the account OR the literal "ALL" for all service delivery points on the account.

All active meters and/or un-metered services on an account will be enrolled and will be included on an Accept Response to an Enrollment request. It may be necessary to send multiple NM1 segments on an Accept Response to describe each metered service delivery point and any un-metered service points on the account being enrolled.

| | | |
|---|---|---|
| **Segment:** | **REF** Reference Identification (Utility Rate Service Class) | |
| **Position:** | 130 | |
| **Loop:** | NM1 | Optional (Dependent) |
| **Level:** | Detail | |
| **Usage:** | Optional (Dependent) | |
| **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. |
| **Notes:** | Enrollment Accept Responses:   Required | |
| | Other Requests/Responses:        Not Used | |
| | REF~NH~1B | |
| | REF~NH~931 | |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| Mand. | REF01 | 128 | Reference Identification Qualifier | M | ID 2/3 |
| | | | NH          Rate Card Number | | |
| | | | REF02 contains the Utility specific rate code that references the service class and rates applicable to the service delivery point(s) identified in the NM109 element. | | |
| Must Use | REF02 | 127 | Reference Identification | X | AN 1/30 |
| | | | Utility Rate code as found in the tariff. (This code can be used to retrieve rates from a utility's web site.) | | |

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (Rate Sub Class) |
| **Position:** | 130 |
| **Loop:** | NM1     Optional (Dependent) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Enrollment Accept Responses:     Conditional |
| | Other Requests/Responses:          Not Used |
| | |
| | If a rate subclass is applicable to the account being enrolled, this segment must be sent in Enrollment Accept Response transactions. |
| | REF~PR~0151 |
| | REF~PR~NRSVD |

### Data Element Summary

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| Mand. | REF01 | 128 | **Reference Identification Qualifier** | | M    ID 2/3 |
| | | | PR                         Price Quote Number | | |
| | | | Utility Rate Subclass - Used to provide further classification of a rate. | | |
| Must Use | REF02 | 127 | **Reference Identification** | | X    AN 1/30 |
| | | | This segment provides for further description of the Utility tariff requirements specified in the REFNH segment. | | |

| Segment: | **REF** Reference Identification (Utility Load Profile Group Code) |
|---|---|
| **Position:** | 130 |
| **Loop:** | NM1 Optional (Dependent) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Enrollment Accept Responses:   Conditional |
| | Other Requests/Responses:       Not Used |
| | |
| | ELECTRIC ONLY:  This segment must be returned in an Accept Response to an enrollment request. |
| | REF~LO~RNH |
| | REF~LO~SC1B |

### Data Element Summary

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| Mand. | REF01 | 128 | **Reference Identification Qualifier** | **M   ID 2/3** |
| | | | LO          Load Planning Number | |
| | | | REF02 is Utility assigned electric load profile code. | |
| Must Use | REF02 | 127 | **Reference Identification** | **X   AN 1/30** |
| | | | Utility assigned load profile code.  Load profile code definitions are provided on the Utility web site. | |

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (Measurement Type and Reporting Interval) |
| **Position:** | 130 |
| **Loop:** | NM1    Optional (Dependent) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Enrollment Requests:            Conditional. |
| | Enrollment Accept Responses:   Required |
| | Other Requests/Responses:      Not Used. |

This segment is sent to describe the measurement types and reporting intervals associated with the service delivery point(s) identified in the NM109 segment.  It may be sent on an Enrollment Request when the bill option is Utility Rate Ready consolidated billing and the E/MESCO wants to associate different rate codes (see REF~RB) with different measurement types and/or reporting intervals.  When an Enrollment Request is being accepted, this segment is used by the Utility to describe the type of consumption and reporting interval for each service delivery point(s) identified in the NM109 segment for the account being enrolled.
REF~MT~KHMON
REF~MT~TDMON
REF~MT~COMBO
REF~MT~KH030
REF~MT~KHTOU

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| **Mand.** | **REF01** | **128** | **Reference Identification Qualifier** | **M    ID 2/3** |
| | | MT | Meter Ticket Number | |

Meter type.
Used to identify the type of consumption measured by a meter and the interval between measurements or the type of consumption and reporting interval applicable to the un-metered service delivery points on the account.

**Must Use      REF02      127      Reference Identification                    X    AN 1/30**

The type and reporting interval for consumption measurements are described in a five-character field.  The first two characters are used to describe the type of consumption.  The last three characters describe the reporting interval.

The literal "COMBO" is sent in the REF02 element of this segment when the service delivery point(s) identified in the NM109 are capable of providing different measurement types AND/OR measurements for more than one time period in a day.

When the REF~MT contains "COMBO" multiple REF~TU segments may be necessary to describe the types of consumption being measured for the service delivery point(s) identified in the NM109 element.  A REF~TU segment must also be sent, even when there is only one type of consumption being measured, when multiple time periods are being measured during a day.

When only one measurement type is applicable to the metered or un-metered service points identified in the NM1 segment, the REF02 in this segment should contain one of the following codes as the first two characters to describe the type of consumption:

K1 Kilowatt Demand (kW)
K2 Kilovolt Amperes Reactive Demand (kVAR)
K3 Kilovolt Amperes Reactive Hour (kVARH)
K4 Kilovolt Amperes (kVA)
K5 Kilovolt Amperes Reactive (kVAR)
KH Kilowatt Hour (kWh)
HH Hundred Cubic Feet (CCF)
TZ Thousand Cubic Feet (MCF)
TD Therms

The following codes are sent as the last three characters of the REF02 element to document the interval capabilities of the metered or un-metered service delivery point(s) identified in the NM1 segment.   If that capability is not known then the interval that should be reported is the scheduled meter reading interval.

BIM Bi-Monthly
DAY Daily
MON Monthly
QTR Quarterly
TOU Time of Use

001-999 - Reporting Intervals. (015 indicates 15 minute intervals, 060 indicates 60 minute intervals, etc.)

| Segment: | **REF** Reference Identification (Use Time of Day) |
|---|---|
| **Position:** | 130 |
| **Loop:** | NM1     Optional (Dependent) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Enrollment Accept Responses:   Conditional |
| | Other Requests/Responses:        Not Used |

Notes continued:

This segment is NOT applicable to gas enrollments but may be applicable to an electric enrollment when usage for the electric account being enrolled is measured for multiple consumption types and/or multiple periods in a day.
A REF~TU segment must be sent to describe the types of consumption being measured for the service delivery point(s) identified in the NM109 element, when the REF~MT segment contains "COMBO" OR when multiple consumption periods are being measured during a day (e.g. on peak, off peak, etc.).
REF~TU~51~KHMON
REF~TU~41~K1BIM

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| Mand. | REF01 | 128 | Reference Identification Qualifier | M    ID 2/3 |
| | | | TU          Trial Location Code | |
| | | | REF02 will contain a code that indicates the time of day for which measurements are obtained. | |
| Mand. | REF02 | 127 | Reference Identification | M    AN 1/30 |
| | | | 41          Off Peak | |
| | | | ~~For Consolidated Edison~~At the utility's option, this code is used to designate Small Time of Use Off Peak Energy. | |
| | | | 42          On Peak | |
| | | | ~~For Consolidated Edison~~At the utility's option, this code is used to designate Small Time of Day On Peak Energy. | |
| | | | 43          Intermediate Peak | |
| | | | 45          Per Gallon | |
| | | | Summer On Peak | |
| | | | 49          Mist | |
| | | | Winter On Peak | |
| | | | 50          Predominant | |
| | | | Winter Mid Peak | |
| | | | 51          Total/Totalizer | |
| | | | Use "51" when: | |
| | | | The total of all consumption of the indicated type for all periods recorded by the meter indicated in the NM1 segment will be reported in the 867 transaction.  For example, if only the total usage for a metered service point will be sent in the 867, the REF~TU should contain "51" on the Accept Response.  When consumption will be reported by intervals on the 867 | |

| Code | Description |
|---|---|
| | transaction, for example, off peak, on peak, and total then multiple REF~TU segments must be present on the Accept Response with codes of "41","42" and "51" for the applicable metered service point. For Consolidated EdisonAt the utility's option, this code is used to designate Total Energy or Total Billed Demand. |
| 57 | Boarded or Blocked |
| | Summer Total |
| 58 | Planned |
| | Winter Total |
| 73 | Low to High |
| | Summer Off Peak |
| 74 | Low to Medium |
| | Summer Intermediate Peak |
| 75 | Low to Moderate |
| | Winter Off Peak |
| 84 | Good to High |
| | High Tension On Peak Energy |
| 85 | High |
| | High Tension Off Peak Energy |
| 86 | Budgeted |
| | Low Tension On Peak Energy |
| 87 | Forecast |
| | Low Tension Off Peak Energy |
| 88 | Adjusted |
| | Low Tension Total Energy |
| 89 | Allocated |
| | Low Tension Primary Demand |
| 90 | Increasing |
| | Low Tension Secondary Demand |
| 91 | Stable |
| | Low Tension Transmission Demand |
| 92 | Declining |
| | High Tension Total Energy |
| 93 | Previous |
| | High Tension Primary Demand |
| 94 | Potential |
| | High Tension Transmission Demand |

**Must Use**     **REF03**     **352**     **Description**                                  **O**    **AN 1/80**

The REF03 element is required when the REF~TU segment is being sent to associate the time of day interval in the REF02 element of this segment with the type of consumption and the meter cycle frequency for each meter indicated in the NM1 segment.

For example, if a specific meter provides both kilowatt hours and demand measurements for peak and off peak intervals for a monthly reading period, multiple REF~TU segments would be sent as follows:

REF~TU~41~KHMON
REF~TU~42~KHMON
REF~TU~41~K1MON
REF~TU~42~K1MON

Valid values for REF03 for consumption types:

K1 Kilowatt Demand (kW)
K2 Kilovolt Amperes Reactive Demand (kVAR)
K3 Kilovolt Amperes Reactive Hour (kVARH)
K4 Kilovolt Amperes (kVA)
K5 Kilovolt Amperes Reactive (kVAR)
KH Kilowatt Hour (kWh)

Valid values for metering periods to be reported on an 867:

BIM Bi-Monthly
DAY Daily
MON Monthly
QTR Quarterly

001-999 is used to report the intervals reportable by an interval meter.

| | |
|---|---|
| **Segment:** | **REF** Reference Identification (ESCO Rate Code) |
| **Position:** | 130 |
| **Loop:** | NM1 Optional (Dependent) |
| **Level:** | Detail |
| **Usage:** | Optional (Dependent) |
| **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. |
| **Notes:** | Enrollment Requests: Conditional |
| | Other Requests: Not Used |
| | Responses: Conditional |

This segment is required in an Enrollment Request transaction when the bill option is Utility Rate Ready consolidated billing (utility calculates the charges appearing on the ESCO/Marketer portion of the customerscustomer's consolidated bill) and the E/MESCO will use rate codes (rather than prices) to communicate the rate to be applied in calculating its customers' charges.
When an enrollment has been requested by the customer through participation in an ESCO Referral Program, the associated Enrollment Accept Response initiated by National Grid may contain the rate code associated with the discounted commodity price applicable to the introductory period for the Referral Program.
REF~RB~R23X40
REF~RB~1150100

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| Mand. | REF01 | 128 | **Reference Identification Qualifier** | M | ID 2/3 |
| | | | RB Rate code number | | |
| | | | REF02 Contains the ESCO/Marketer Rate Code that will indicate the prices to be applied to this service point. | | |
| Must Use | REF02 | 127 | **Reference Identification** | X | AN 1/30 |
| | | | An alphanumeric rate code indicating a table of rates used to calculate net charges associated with this metering point. | | |

| | | |
|---|---|---|
| **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:** | | |
| **Notes:** | Request:    Required<br>Response:  Required<br>SE~37~0001 | |

### Data Element Summary

| | Ref. Des. | Data Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Mand.** | **SE01** | **96** | **Number of Included Segments** | **M** | **N0 1/10** |
| **Mand.** | **SE02** | **329** | **Transaction Set Control Number** | **M** | **AN 4/9** |
| | | | This identifier is the same identifier used in ST02 that started this transaction set. | | |

# EXAMPLES

These examples are presented for illustrative purposes only. Although they are syntactically correct with respect to the published transaction standard for TS814 Enrollment Request & Response, it should be understood that these examples reflect certain assumptions regarding optional and conditional data segments in this standard. Accordingly, these examples are not necessarily indicative of the manner in which a specific Utility or ESCO/marketer would map a specific transaction.

### Scenario 1: Request for Gas Enrollment - Bill Option is Utility Rate Ready

| | |
|---|---|
| ST*814*0061! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*13*20060615072434*20060615! | Transaction is a **Request**; Unique id number for this transaction; transaction creation date |
| N1*SJ*E/MESCO NAME*1*006827749! | E/MESCO Name and DUNS number |
| N1*8S*NATIONAL GRID*1*006994735! | Utility Name and DUNS number |
| N1*8R*RESTOVER NURS HME&HOSP! | Customer Name |
| LIN*ABC001*SH*GAS*SH*CE! | Unique LIN reference number; service is **Gas**; request is for **Enrollment** |
| ASI*7*021! | Transaction is a request; action is **Enrollment** |
| REF*11*526894GS! | E/MESCO assigned account number for the customer |
| REF*12*378832100! | Utility assigned account number for the customer |
| REF*BLT*LDC! | **Utility** is Bill Presenter |
| REF*PC*LDC! | **Utility** is Bill Calculator |
| REF*GS*B*MONTHLY! | Gas Supply Service Option is **Balancing**; Account will be balanced **monthly** |
| REF*ALC*Y! | Customer being enrolled is a **Human Needs Customer** |
| AMT*DP*1.00! | E/MESCO service is **100% tax exempt** |
| AMT*RJ*.95! | E/MESCO Commodity price is **$.95 per unit** |
| AMT*FW*5.00! | E/MESCO Fixed Charge is $5.00 per bill period |
| SE*17*0061! | Transaction Set trailer; segment count; control number |

### Scenario 1: Accept Response

| | |
|---|---|
| ST*814*0064! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*11*20060619145101*20060619***20060615072434! | Transaction is a Response; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction |
| N1*SJ*E/MESCO NAME*1*006827749! | E/MESCO Name and DUNS number |
| N1*8S*NATIONAL GRID*1*006994735! | Utility Name and DUNS number |
| N1*8R*RESTOVER NURS HME & HOSP! | Customer Name |
| N3*129 KINGS PARK DR HSE! | Customer Service Address-Street |
| N4*LIVERPOOL*NY*13090! | Customer Service Address-City State Zip |
| LIN*ABC001*SH*GAS*SH*CE! | Unique LIN reference number; service is **Gas**; response pertains to **Generation Services** |
| ASI*WQ*021! | Status is **Accept**; action is **Enrollment** |
| REF*11*526894GS! | E/MESCO assigned account number for the |

| customer |
| --- |

## Scenario 1 Accept Response – Continued

| | |
|---|---|
| REF*12*378832100! | Utility assigned account number for the customer |
| REF*65*19*MON! | Utility meter read cycle for this customer |
| REF*BF*19*MON! | Utility bill cycle for this customer |
| REF*BLT*LDC! | **Utility** is bill presenter |
| REF*PC*LDC! | **Utility** is bill calculator |
| REF*NR*Y! | The enrolling customer is currently on budget billing for Utility charges |
| REF*GS*B*MONTHLY! | Gas Supply Service Option is **Balancing Option**; Account will be balanced **Monthly** |
| REF*TX*Y! | Utility Tax Exempt |
| DTM*150*20060701! | Assigned Start Date for the **Enrollment** |
| AMT*RJ*.95! | E/MESCO Commodity price is $.95 per unit |
| AMT*FW*5.00! | E/MESCO Fixed Charge is $5.00 per bill period |
| NM1*MQ*3******32*OJ325996! | Service end point on the account is metered; this is the meter number |
| REF*NH*641! | Utility Rate Class associated with this meter |
| REF*PR*SC2MO! | Utility Rate SubClass associated with this meter |
| REF*MT*TDMON! | Measurement Type for this meter is **Therms**; Reporting interval for consumption is **Monthly** |
| NM1*MQ*3******32*OH545252! | 2nd Service end point on the account is metered; this is the meter number |
| REF*NH*641! | Utility Rate Class associated with this meter |
| REF*PR*SC2MO! | Utility Rate SubClass associated with this meter |
| REF*MT*TDMON! | Measurement Type for this meter is **Therms**; Reporting interval for consumption is **Monthly** |
| SE*29*0064! | Transaction Set trailer; segment count; control number |

## Scenario 1: Reject Response

| | |
|---|---|
| ST*814*0068! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*11*20060619145101*20060619***20060615072434! | Transaction is a **Response**; Unique id number for this transaction; transaction creation date |
| N1*SJ*E/MESCO NAME*1*006827749! | E/MESCO Name and DUNS number |
| N1*8S*NATIONAL GRID*1*006994735! | Utility Name and DUNS number |
| N1*8R*RESTOVER NURS HME & HOSP! | Customer Name |
| LIN*ABC001*SH*GAS*SH*CE! | Unique LIN reference number; service is **Gas**; request is for **Enrollment** |
| ASI*U*021! | Status is **Reject**; action is **Enrollment** |
| REF*7G*NFI! | Data Quality Reject Reason is **"Not First In"** |
| REF*12*378832100! | Utility assigned account number for the customer |
| SE*10*0068! | Transaction Set trailer; segment count; control number |

## *Scenario 2: Request for Electric Enrollment with Secondary Request for Historic Usage*

| | |
|---|---|
| ST*814*0069! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*13*20060622ERQCEHU*20060622! | Transaction is a **Request**; Unique id number for this transaction; transaction creation date |
| N1*SJ*E/MESCO NAME*1*006817952! | E/MESCO Name and DUNS number |
| N1*8S*CON EDISON*1*006982359! | Utility Name and DUNS number |
| N1*8R*S.COHEN DBA FUNKY FASHIONS II! | Customer Name |
| LIN*AACCDD0101A*SH*EL*SH*CE! | Unique LIN reference number; service is **Electric**; request is for **Generation Services** |
| ASI*7*021! | Status is **Request**; action is **Enrollment** |
| REF*11*A12345009Z! | E/MESCO assigned account number for the customer |
| REF*12*994102162510009! | Utility assigned account number for the customer |
| REF*BLT*ESP*AGENT! | E/MESCO is bill presenter; Agency Billing model is applicable |
| REF*PC*DUAL! | Bill calculator is Dual (Utility and E/MESCO will calculate their own charges) |
| LIN*AACCDD0101B*SH*EL*SH*HU! | Unique LIN reference number; service is **Electric**; request is for **Generation Services** |
| ASI*7*029! | Status is **Request**; action is **Historic Usage** |
| REF*11*A12345009Z! | E/MESCO assigned account number for the customer |
| REF*12*994102162510009! | Utility assigned account number for the customer |
| SE*16*0069! | Transaction Set trailer; segment count; control number |

## *Scenario 2: Accept Response(s): Both Enrollment and Historic Usage Requests are Accepted*
### *(Note: Responses to Request transactions containing multiple requests may be sent in a single Response transaction or in multiple Response transactions)*

| | |
|---|---|
| ST*814*0071! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*11*1234567890*20060626***20060622ERQCEHU! | Transaction is a **Response**; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction |
| N1*SJ*E/MESCO NAME*1*006817952! | E/MESCO Name and DUNS number |
| N1*8S*CON EDISON*1*006982359! | Utility Name and DUNS number |
| N1*8R*S.COHEN DBA FUNKY FASHIONS II! | Customer Name |
| N3*348 7TH AVE! | Customer Service Address-Street |
| N4*NEW YORK*NY*10001-5001! | Customer Service Address-City State Zip |
| N1*BT*ATTN: FUNKY FASHIONS II! | Customer Name for Mailing |
| N3*C/O 237 W 35TH ST, 16TH FLOOR! | Customer Mailing Address-Street |
| N4*NEW YORK*NY*10001-1989! | Customer Mailing Address-City State Zip |
| LIN*AACCDD0101A*SH*EL*SH*CE! | Unique LIN reference number; service is **Electric**; response pertains to **Generation Services** |
| ASI*WQ*021! | Status is **Accept**; action is **Enrollment** |

## Scenario 2 Response – Continued

| | |
|---|---|
| REF*1P*A13*CONTACT LIAISON REGARDING BILL SETUP! | Information regarding Enrollment acceptance |
| REF*11*A12345009Z! | E/MESCO assigned account number for the customer |
| REF*12*994102162510009! | Utility assigned account number for the customer |
| REF*65*CM*MON! | Customer's meter cycle & period |
| REF*BF*CY*MON! | Customer's bill cycle & period |
| REF*BLT*ESP*AGENT! | E/MESCO is bill presenter; Agency Billing model is applicable |
| REF*PC*DUAL! | Bill calculator is **Dual** (Utility and E/MESCO will calculate their own charges) |
| REF*SPL*J! | ***Marginal Pricing Zone is NYC*** |
| DTM*150*20060717! | Assigned Service Start Date is ***07/17/2006*** |
| NM1*MQ*3*****32*1839295! | Service end point on the account is metered; this is the meter number |
| REF*NH*9! | Utility Rate Class associated with this meter |
| REF*PR*44! | Utility Rate SubClass associated with this meter |
| REF*LO*SC3B! | Utility Load Profile Group Code |
| REF*MT*KHMON! | Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly*** |
| NM1*MQ*3*****32*5190008! | 2<sup>nd</sup> Service end point on the account is metered; this is the meter number |
| REF*NH*9! | Utility Rate Class associated with this meter |
| REF*PR*44! | Utility Rate SubClass associated with this meter |
| REF*LO*SC3B! | Utility Load Profile Group Code |
| REF*MT*KHMON! | Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly*** |
| NM1*MQ*3*****32*5190012! | 3<sup>rd</sup> Service end point on the account is metered; this is the meter number |
| REF*NH*9! | Utility Rate Class associated with this meter |
| REF*PR*44! | Utility Rate SubClass associated with this meter |
| REF*LO*SC3B! | Utility Load Profile Group Code |
| REF*MT*KHMON! | Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly*** |
| NM1*MQ*3*****32*51990013! | 4<sup>th</sup> Service end point on the account is metered; this is the meter number |
| REF*NH*9! | Utility Rate Class associated with this meter |
| REF*PR*44! | Utility Rate SubClass associated with this meter |
| REF*LO*SC3B! | Utility Load Profile Group Code |
| REF*MT*KHMON! | Measurement Type for this meter ***is Kilowatt hours;*** Reporting interval for consumption is ***Monthly*** |
| NM1*MQ*3*****32*60437299! | 5<sup>th</sup> Service end point on the account is metered; this is the meter number |
| REF*NH*9! | Utility Rate Class associated with this meter |

## Scenario 2 Response – Continued

| | |
|---|---|
| REF*PR*44! | Utility Rate SubClass associated with this meter |
| REF*LO*SC3B! | Utility Load Profile Group Code |
| REF*MT*K1MON! | Measurement Type for this meter is **Kilowatt Demand;** Reporting interval for consumption is **Monthly** |
| LIN*AACCDD0101B*SH*EL*SH*HU! | 2nd LIN loop: Unique LIN reference number; service is **Electric;** response pertains to **Historic Usage** |
| ASI*WQ*029! | Status is **Accept**; action is **Inquiry** |
| REF*1P*A13*ZERO IS VALID VALUE FOR HU! | Information regarding Historic Usage response |
| REF*11*A12345009Z! | ~~E/M~~ESCO assigned account number for the customer |
| REF*12*994102162510009! | Utility assigned account number for the customer |
| SE*52*0071! | Transaction Set trailer; segment count; control number |

### Scenario 2: Responses: Accept Enrollment Request, Reject Historic Usage Request

| | |
|---|---|
| ST*814*0072! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*11*200606260099*20060626***20060622ERQCEHU! | Transaction is a **Response**; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction |
| N1*SJ*~~E/M~~ESCO NAME*1*006817952! | ~~E/M~~ESCO Name and DUNS number |
| N1*8S*CON EDISON*1*006982359! | Utility Name and DUNS number |
| N1*8R*S.COHEN DBA FUNKY FASHIONS II! | Customer Name |
| N3*348 7TH AVE! | Customer Service Address-Street |
| N4*NEW YORK*NY*10001-5001! | Customer Service Address-City State Zip |
| N1*BT*ATTN: FUNKY FASHIONS II! | Customer Name for Mailing |
| N3*C/O 237 W 35TH ST, 16TH FLOOR! | Customer Mailing Address-Street |
| N4*NEW YORK*NY*10001-1989! | Customer Mailing Address-City State Zip |
| LIN*1*SH*EL*SH*CE! | Unique LIN reference number; service is **Electric;** response pertains to **Generation Services** |
| ASI*WQ*021! | Status is **Accept**; action is **Enrollment** |
| REF*1P*A13*CONTACT LIAISON REGARDING BILL SETUP! | Information regarding Enrollment acceptance |
| REF*11*A12345009Z! | ~~E/M~~ESCO assigned account number for the customer |
| REF*12*994102162510009! | Utility assigned account number for the customer |
| REF*65*CM*MON! | Customer's meter cycle & period |
| REF*BF*CY*MON! | Customer's bill cycle & period |
| REF*BLT*ESP*AGENT! | ~~E/M~~ESCO is bill presenter; Agency Billing model is applicable |
| REF*PC*DUAL! | Bill calculator is **Dual**(Utility and ~~E/M~~ESCO will calculate their own charges) |
| REF*SPL*J! | **Marginal Pricing Zone is NYC** |
| REF*TDT*C | ***Account Settlement – Class Load Shape*** |
| REF*TX*Y | ***Utility Tax Exempt Status*** |
| DTM*150*20060717! | Assigned Service Start Date is **07/17/2006** |
| NM1*MQ*3******32*1839295! | Service end point on the account is metered; this is the meter number |

| REF*NH*9! | Utility Rate Class associated with this meter |
|-----------|-----------------------------------------------|

### *Scenario 2 Response – Continued*

| | |
|---|---|
| REF*NH*9! | Utility Rate Class associated with this meter |
| REF*PR*44! | Utility Rate SubClass associated with this meter |
| REF*LO*SC3B! | Utility Load Profile Group Code |
| REF*MT*KHMON! | Measurement Type for this meter *is Kilowatt hours;* Reporting interval for consumption is *Monthly* |
| NM1*MQ*3*****32*5190008! | 2nd Service end point on the account is metered; this is the meter number |
| REF*NH*9! | Utility Rate Class associated with this meter |
| REF*PR*44! | Utility Rate SubClass associated with this meter |
| REF*LO*SC3B! | Utility Load Profile Group Code |
| REF*MT*KHMON! | Measurement Type for this meter *is Kilowatt hours;* Reporting interval for consumption is *Monthly* |
| NM1*MQ*3*****32*5190012! | 3rd Service end point on the account is metered; this is the meter number |
| REF*NH*9! | Utility Rate Class associated with this meter |
| REF*PR*44! | Utility Rate SubClass associated with this meter |
| REF*LO*SC3B! | Utility Load Profile Group Code |
| REF*MT*KHMON! | Measurement Type for this meter *is Kilowatt hours;* Reporting interval for consumption is *Monthly* |
| NM1*MQ*3*****32*51990013! | 4th Service end point on the account is metered; this is the meter number |
| REF*NH*9! | Utility Rate Class associated with this meter |
| REF*PR*44! | Utility Rate SubClass associated with this meter |
| REF*LO*SC3B! | Utility Load Profile Group Code |
| REF*MT*KHMON! | Measurement Type for this meter *is Kilowatt hours;* Reporting interval for consumption is *Monthly* |
| NM1*MQ*3*****32*60437299! | 5th Service end point on the account is metered; this is the meter number |
| REF*NH*9! | Utility Rate Class associated with this meter |
| REF*PR*44! | Utility Rate SubClass associated with this meter |
| REF*LO*SC3B! | Utility Load Profile Group Code |
| REF*MT*K1MON! | Measurement Type for this meter is *Kilowatt Demand;* Reporting interval for consumption is *Monthly* |
| LIN*2*SH*EL*SH*HU! | 2nd LIN loop: Unique LIN reference number; service is *Electric;* response pertains to *Historic Usage* |
| ASI*U*029! | Status is *Reject;* action is *Historic Usage* |
| REF*7G*HUR! | Data Quality Reject Reason is *"Historical Usage Not Released"* |
| REF*12*994102162510009! | Utility assigned account number for the customer |
| SE*51*0072! | Transaction Set trailer; segment count; control number |

## Scenario 3: Request for Gas Enrollment with Secondary Request for Gas Profile

| | |
|---|---|
| ST*814*0073! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*13*20060626072434*20060626! | Transaction is a **Request**; Unique id number for this transaction; transaction creation date |
| N1*SJ*~~E/M~~ESCO NAME*9*006808921DUNS! | ~~E/M~~ESCO Name and DUNS number |
| N1*8S*NATIONAL FUEL*1*006976666! | Utility Name and DUNS number |
| N1*8R*VILLAGE OF ORCHARD PARK! | Customer Name |
| LIN*044*SH*GAS*SH*CE! | Unique LIN reference number; service is **Gas**; request is for **Generation Services** |
| ASI*7*021! | Transaction is a **Request**; action is **Enrollment** |
| REF*11*GS01069564! | ~~E/M~~ESCO assigned account number for the customer |
| REF*12*377504508! | Utility assigned account number for the customer |
| REF*BLT*LDC! | **Utility** is bill presenter |
| REF*PC*LDC! | **Utility** is bill calculator |
| REF*VI*101809! | ID for Gas Pool assigned to this customer |
| AMT*DP*1.00! | Customer is tax exempt |
| AMT*RJ*.87! | ~~E/M~~ESCO Commodity price per unit |
| LIN*045*SH*GAS*SH*GP! | 2nd LIN loop: Unique LIN reference number; service is **Gas**; request pertains to **Gas Profile** |
| ASI*7*029! | Status is **Request**; action is **Inquiry** |
| REF*11*GS01069564! | ~~E/M~~ESCO assigned account number for the customer |
| REF*12*377504508! | Utility assigned account number for the customer |
| SE*19*0073! | Transaction Set trailer; segment count; control number |

## Scenario 3: Accept Response(s): Both Primary and Secondary requests are accepted

*(Note: responses to Request transactions containing multiple requests may be sent in a single Response transaction or in multiple Response transactions)*

| | |
|---|---|
| ST*814*0076! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*11*123456*20060628***20060626072434! | Transaction is a **Response**; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction |
| N1*SJ*~~E/M~~ESCO NAME*9*006808921DUNS! | ~~E/M~~ESCO Name and DUNS number |
| N1*8S*NATIONAL FUEL*1*006976666! | Utility Name and DUNS number |
| N1*8R*VILLAGE OF ORCHARD PARK! | Customer Name |
| N3*4295 S BUFFALO RD! | Customer Service Address-Street |
| N4*ORCHARD PARK*NY*14127-2688! | Customer Service Address-City State Zip |
| LIN*Z001*SH*GAS*SH*CE! | Unique LIN reference number; service is **Gas**; response pertains to **Generation Services** |
| ASI*WQ*021! | Status is **Accept**; action is **Enrollment** |
| REF*11*GS01069564! | ~~E/M~~ESCO assigned account number for the customer |
| REF*12*377504508! | Utility assigned account number for the customer |
| REF*65*01*MON! | Customer's meter read cycle |
| REF*BF*01*MON! | Customer's bill cycle |
| REF*BLT*LDC! | **Utility** is bill presenter |
| REF*PC*LDC! | **Utility** is bill calculator |
| REF*VI*101809! | ID for Gas Pool assigned to this customer |
| NM1*MQ*3******93*UNMETERED! | Service end point on the account is unmetered |
| REF*NH*3! | Utility Rate Class associated with this service end point |
| REF*PR*9! | Utility Rate SubClass associated with this service end point |
| REF*MT*HHMON! | Measurement type for this service end point is **CCF**; reporting interval is **Monthly** |
| NM1*MQ*3******93*UNMETERED! | 2nd Service end point on the account is unmetered |
| REF*NH*3! | Utility Rate Class associated with this service end point |
| REF*PR*9! | Utility Rate SubClass associated with this service end point |
| REF*MT*HHMON! | Measurement type for this service end point is **CCF**; reporting interval is **Monthly** |
| LIN*Z002*SH*GAS*SH*GP! | Unique LIN reference number; service is **Gas**; response pertains to **Gas Profile** |
| ASI*WQ*029! | Status is **Accept**; action is **Inquiry** |
| REF*1P*A13*GAS PROFILE NOT SUPPORTED – WILL SEND ACTUAL USAGE! | Information sent to clarify Accept Response |
| REF*11*GS01069564! | ~~E/M~~ESCO assigned account number for the customer |
| REF*12*377504508! | Utility assigned account number for the customer |
| SE*30*0076! | Transaction Set trailer; segment count; control number |

## *Scenario 4: Request for Gas Enrollment – Single Retailer Model (NFG)*

| | |
|---|---|
| ST*814*0079! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*13*20060630001*20060630! | Transaction is a **Request**; Unique id number for this transaction; transaction creation date |
| N1*SJ*~~E/M~~ESCO NAME*1*006827749! | ~~E/M~~ESCO Name and DUNS number |
| N1*8S*NFG*1*006976666! | Utility Name and DUNS number |
| N1*8R*CUSTOMER NAME! | Customer Name |
| LIN*AACCDD0102005A*SH*GAS*SH*CE! | Unique transaction reference number; service is **Gas**; request is for **Generation Services** |
| ASI*7*021! | Status is **Request,** action is **Enrollment** |
| REF*11*A12345009Z! | ~~E/M~~ESCO assigned account number for the customer |
| REF*12*123456701! | Utility assigned account number for the customer |
| REF*BLT*ESP! | **Marketer** is bill presenter |
| REF*PC*DUAL! | **Both Parties** act as bill calculator |
| REF*VI*000123456! | Gas Pool ID |
| REF*SU*N! | Customer does not require life support equipment |
| SE*14*0079! | Transaction Set trailer; segment count; control number |

## Scenario 4: Accept Response for Gas Enrollment – Single Retailer Model (NFG)

| | |
|---|---|
| ST*814*000180! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*11*00120060702*20060702***20060630001! | Transaction is a **Response**; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction |
| N1*SJ*~~E/M~~ESCO NAME*1*006827749! | ~~E/M~~ESCO Name and DUNS number |
| N1*8S*NATIONAL FUEL GAS DISTRIBUTION CORPORATION*1*006976666! | Utility Name and DUNS number |
| N1*8R*JANE SMITH! | Customer Name |
| N3*123 SERVICE POINT ROAD! | Customer Service Address-Street |
| N4*BUFFALO*NY*14207! | Customer Service Address-City/State |
| LIN*123A*SH*GAS*SH*CE! | Unique transaction reference number; service is **Gas**; response pertains to **Generation Services** |
| ASI*WQ*021! | Status is **Accept**; action is **Enrollment** |
| REF*11*A12345009Z! | ~~E/M~~ESCO assigned account number for the customer |
| REF*12*123456701! | Utility assigned account number for the customer |
| REF*65*03*MON! | Utility meter read cycle for the customer |
| REF*BF*03*MON! | Utility bill cycle for the customer |
| REF*BLT*ESP! | **Marketer** is bill presenter |
| REF*PC*DUAL! | **Both Parties** act as bill calculator |
| REF*SU*N! | Life support not required |
| REF*VI*000123456! | Gas Pool ID |
| DTM*150*20060719! | Assigned Service Start Date is **7/19/2006** |
| NM1*MQ*3******32*82582420! | Service end point on the account is metered; this is the meter number |
| REF*NH*04! | Utility Rate Class associated with this meter |
| REF*MT*HHMON! | Measurement Type for this meter is **CCF**; Reporting interval for consumption is **Monthly** |
| SE*22*000180! | Transaction Set trailer; segment count; control number |

## Scenario 5: Request for Unmetered Service Only on Electric Account

| | |
|---|---|
| ST*814*000000001! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*13*20060630001*20060630! | Transaction is a **Request**; Unique id number for this transaction; transaction creation date |
| N1*SJ*~~E/M~~ESCO NAME*1*006817952! | ~~E/M~~ESCO Name and DUNS number |
| N1*8S*ORANGE & ROCKLAND*24*231234567! | Utility Name and DUNS number |
| N1*8R*JOHN SMITH! | Customer Name |
| LIN*1*SH*EL*SH*CE! | Unique LIN reference number; service is **Electric**; request is for **Generation Services** |
| ASI*7*021! | Status is **Request**; action is **Enrollment** |
| REF*11*U555789! | ~~E/M~~ESCO assigned account number for the customer |
| REF*12*0941235550*U! | Utility assigned account number for the customer |
| REF*BLT*LDC! | **Utility** is Bill Presenter |
| REF*PC*LDC! | **Utility** is Bill Calculator |
| AMT*RJ*.08! | ~~E/M~~ESCO Commodity price is **$.08 per unit** |
| AMT*FW*5.00! | ~~E/M~~ESCO Fixed Charge is $5.00 per bill period |
| SE*14*000000001! | Transaction Set trailer; segment count; control number |

## *Scenario 5: Accept Response for Unmetered Service Only on Electric Account*

| | |
|---|---|
| ST*814*00009! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*11*000113585R*20060703***20060630001! | Transaction is a **Response**; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction |
| N1*SJ*~~E/M~~ESCO NAME*1*006817952! | ~~E/M~~ESCO Name and DUNS number |
| N1*8S*ORANGE & ROCKLAND*24*231234567! | Utility Name and DUNS number |
| N1*8R*JOHN SMITH! | Customer Name |
| N3*123 MAIN ST! | Customer Service Address-Street |
| N4*CITY*NY*100019587! | Customer Service Address-City State Zip |
| LIN*1*SH*EL*SH*CE! | Unique LIN reference number; service is **Electric**; request is for **Generation Services** |
| ASI*WQ*021! | Status is **Request**; action is **Enrollment** |
| REF*11*U555789! | ~~E/M~~ESCO assigned account number for the customer |
| REF*12*0941235550*U! | Utility assigned account number for the customer |
| REF*65*15*MON! | Customer's meter cycle & period |
| REF*BF*15*MON! | Customer's bill cycle & period |
| REF*BLT*LDC! | **Utility** is Bill Presenter |
| REF*PC*LDC! | **Utility** is Bill Calculator |
| REF*SPL*G! | **Marginal Pricing Zone is Hud Valley** |
| DTM*150*20060717! | Assigned Service Start Date is **07/17/2006** |
| AMT*KZ*1.6! | ~~Electric Capacity Assignment~~ICAP |
| DTM*AB4****RD8*20140601-20150531 | ICAP Effective Date |
| AMT*RJ*.08! | ~~E/M~~ESCO Commodity price is **$.08 per unit** |
| AMT*FW*5.00! | ~~E/M~~ESCO Fixed Charge is $5.00 per bill period |
| NM1*MQ*3******93*UNMETERED! | Service end point on the account is unmetered |
| REF*NH*UM1! | Utility Rate Class associated with this service end point |
| REF*PR*L01! | Utility Rate SubClass associated with this service end point |
| REF*LO*LT92! | Utility Load Profile Group |
| REF*MT*KHMON! | Measurement type for this service end point is **KwH**; reporting interval is **Monthly** |
| SE*26*00009! | Transaction Set trailer; segment count; control number |

## Scenario 6: Request for Gas Enrollment with Budget Amounts (NFG)
### Utility Rate Ready Billing with Pay-As-You-Get-Paid

| | |
|---|---|
| ST*814*0061! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*13*20060630499*20060630! | Transaction is a **Request**; Unique id number for this transaction; transaction creation date |
| N1*SJ*~~E/M~~ESCO NAME*9*006827749EM! | ~~E/M~~ESCO Name and DUNS number |
| N1*8S*NATIONAL FUEL GAS DISTRIBUTION CORPORATION*1*006976666! | Utility Name and DUNS number |
| N1*8R*NAME! | Customer Name |
| LIN*AACCDD0102005A*SH*GAS*SH*CE! | Unique transaction reference number; service is **Gas**; request is for **Enrollment** |
| ASI*7*021! | Transaction is a request; action is **Enrollment** |
| REF*11*123456789! | ~~E/M~~ESCO assigned account number for the customer |
| REF*12*123456701! | Utility assigned account number for the customer |
| REF*BLT*LDC! | **Utility** is Bill Presenter |
| REF*PC*LDC! | **Utility** is Bill Calculator |
| REF*NR*Y! | Customer will be on budget billing for ~~E/M~~ESCO charges |
| REF*LF*N2! | Late fees will not be assessed on ~~E/M~~ESCO past due amounts |
| REF*GS*B*MONTHLY! | Gas Supply Service Option is **Balancing**; Account will be balanced M**onthly** |
| REF*VI*999999999! | Gas Pool ID required for NFG enrollments |
| AMT*B5*86! | Marketer Budget Plan Monthly Payment Amount is $86.00 |
| AMT*BD*-109.25! | The ~~E/M~~ESCO budget plan for this account has a pre-enrollment balance of ($109.25) |
| AMT*RJ*.95! | ~~E/M~~ESCO Commodity price is **$.95 per unit** |
| NM1*MQ*3******93*ALL! | Rate code provided applies to all service points |
| SE*20*0061! | Transaction Set trailer; segment count; control number |

## Scenario 6: Accept Response for Gas Enrollment with Budget Amounts (NFG)

| | |
|---|---|
| ST*814*0064! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*11*889789987*20060702***20060630499! | Transaction is a Response; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction |
| N1*SJ*E/MESCO NAME*9*006827749EM! | E/MESCO Name and DUNS number |
| N1*8S*NATIONAL FUEL GAS DISTRIBUTION CORPORATION*1*006976666! | Utility Name and DUNS number |
| N1*8R*BRAD MILLER! | Customer Name |
| N3*123 ANYWHERE ROAD! | Customer Service Address-Street |
| N4*ANYWHERE*NY*12345! | Customer Service Address-City/State |
| N1*BT*BRAD MILLER! | Bill-to information |
| N3*PO BOX 9999! | Bill-to address |
| N4*ANYWHERE*NY*12345! | Bill-to address (cont.) |
| LIN*1*SH*GAS*SH*CE! | Unique transaction reference number; service is **Gas**; response pertains to **Generation Services** |
| ASI*WQ*021! | Status is **Accept**; action is **Enrollment** |
| REF*11*123456789! | E/MESCO assigned account number for the customer |
| REF*12*123456701! | Utility assigned account number for the customer |
| REF*65*02*MON! | Utility meter read cycle for this customer |
| REF*BF*02*MON! | Utility bill cycle for this customer |
| REF*BLT*LDC! | **Utility** is bill presenter |
| REF*PC*LDC! | **Utility** is bill calculator |
| REF*NR*Y! | Customer is on budget billing for Utility charges |
| REF*VI*999999999! | Gas Pool ID |
| DTM*150*20060719! | Assigned Start Date for the **Enrollment** |
| NM1*MQ*3******32*OJ325996! | Service end point on the account is metered; this is the meter number |
| REF*NH*01! | Utility Rate Class associated with this meter |
| REF*MT*HHMON! | Measurement Type for this meter is **CCF**; Reporting interval for consumption is **Monthly** |
| SE*25*0064! | Transaction Set trailer; segment count; control number |

### Scenario 7: ESCO Referral Program Enrollment – Central Hudson

| | |
|---|---|
| ST*814*000000001! | Transaction Set header; transaction defined is an **814**; control number assigned by originator |
| BGN*11*R0031701*20060413***MANUAL! | Transaction is a Response; Unique id number for this transaction; transaction creation date; literal "MANUAL" indicating this is an ESCO Referral Program Customer |
| N1*SJ*E/M NAME*1*625401997! | E/M Name and DUNS number |
| N1*8S*CENTRAL HUDSON GAS & ELEC CORP*1*006993695! | Utility Name and DUNS number |
| N1*8R*JOHN SMITH****PS! | Customer Name; This is an ESCO Referral Program Enrollment |
| N3*319 SMITH STREET! | Customer Service Address-Street |
| N4*POUGHKEEPSIE*NY*126033111! | Customer Service Address-City/State |
| PER*IC**TE*NOT AVAIL! | Telephone Number is Not Available |
| LIN*MANUAL001*SH*GAS*SH*CE! | Unique transaction reference number; service is **Gas**; response pertains to **Generation Services** |
| ASI*WQ*021! | Status is **Accept**; action is **Enrollment** |
| REF*1P*A13*ENERGY SWITCH CUSTOMER! | Information regarding Enrollment acceptance |
| REF*12*6157324112! | Utility assigned account number for the customer |
| REF*65*01*BIM! | Utility meter read cycle for this customer |
| REF*BF*01*BIM! | Utility bill cycle for this customer |
| REF*BLT*LDC! | **Utility** is bill presenter |
| REF*PC*LDC! | **Utility** is bill calculator |
| REF*AJ*0124006705! | Utility Assigned Account Number for the E/M |
| DTM*150*20060501! | Assigned Start Date for the **Enrollment** |
| NM1*MQ*3******32*003166397! | Service end point on the account is metered; this is the meter number |
| REF*NH*1! | Utility Rate Class associated with this meter |
| REF*PR*120! | Utility Rate Subclass associated with this meter |
| REF*MT*HHBIM! | Measurement Type for this meter is **CCF**; Reporting interval for consumption is **Bi-Monthly** |
| REF*RB*X999! | ESCO Rate Code associated with this service end point |
| SE*24*000000001! | Transaction Set trailer; segment count; control number |