

New York Implementation Standard

For

Standard Electronic Transactions

TRANSACTION SET

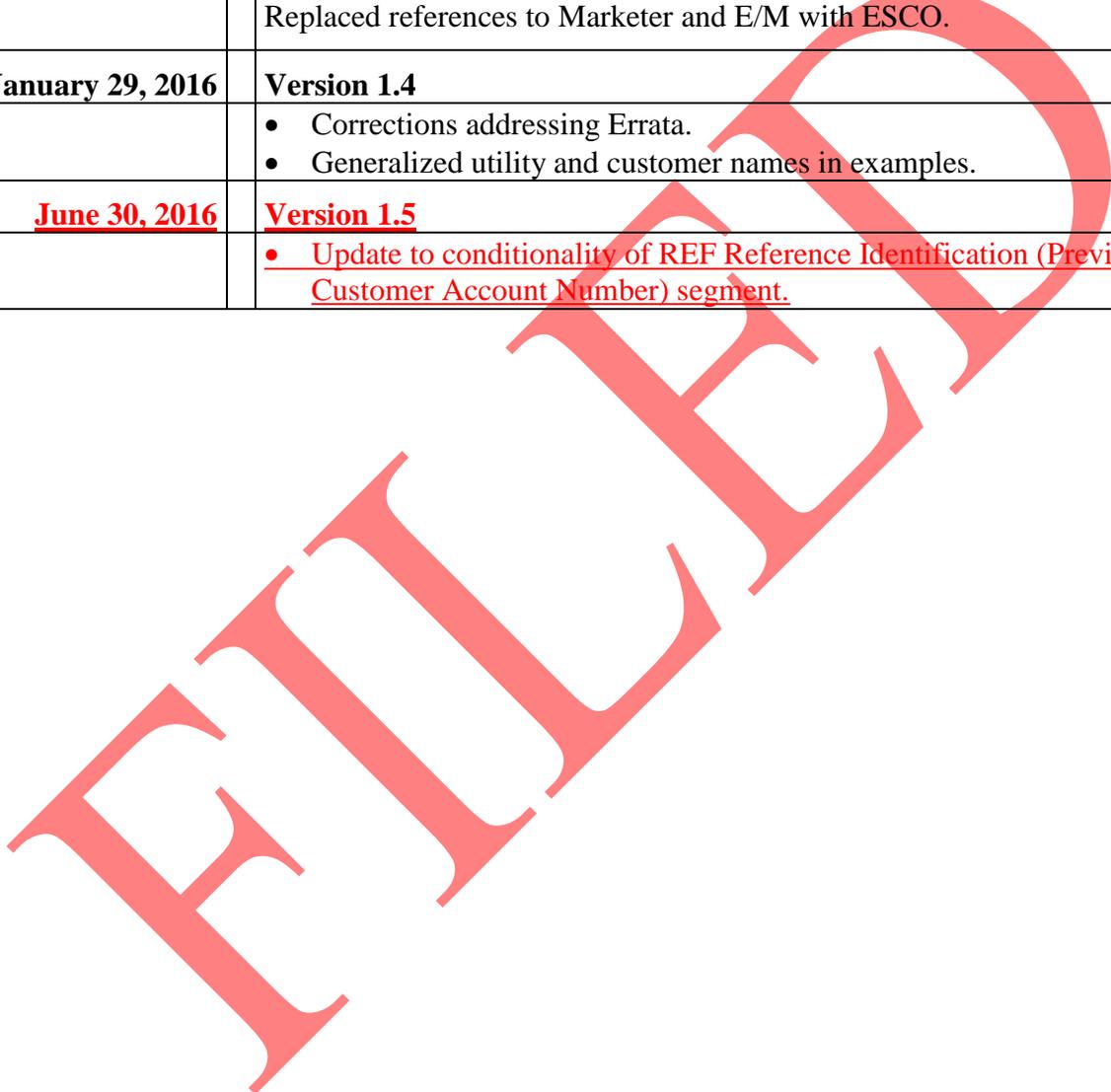
814

Consumption History Request & Response

Ver/Rel 004010

	Summary of Changes
July 20, 2001	Version 1.0 Initial Release
August 7, 2002	Version 1.1 Issued.
	Inserted updated Field Descriptions Guideline Page
	Added new REF segment (REF*AJ) to accommodate exchange of a Utility Account Number for the ESCO/Marketer
	Example is revised to display use of REF*AJ in an accept response transaction.
	Changed the LIN Loop repeat from >1 to 1. There can only be one request and one response LIN in this transaction.
June 20, 2006	Version 1.2 Issued
	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.
	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.
	The usage attribute for the N3/N4 segments (Service Address) in an N1*8R (Customer) Loop is revised from Optional to Conditional in Accept Responses to comply with the Uniform Business Practices (Section 4, C.2.a.1.).
	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.
	The REF*93 (Fee Approved/Fee Applied) segment is deleted. 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 customer's electric service when both metered and un-metered service are present on the same account.
	All dates in segment or element notes and in examples have been updated to reflect 2006 dates.
	Examples have been updated to reflect revised structure.

October 23, 2014	Version 1.3
	Case - 12-M-0476 Added code “CAB” for Enrollment Block and/or Historical Block response in REF*7G. Detail Notes in REF*7G segment. Added new segment REF*1P (Response Information or Warnings). This segment will be send if the historical response is an accept, only the PTD*FG information is available in the 867HU.
	Utility specific notes are generalized, as appropriate, and designated for relocation to/reference within Utility Maintained EDI Guides, as necessary.
	Replaced references to Marketer and E/M with ESCO.
January 29, 2016	Version 1.4
	<ul style="list-style-type: none"> • Corrections addressing Errata. • Generalized utility and customer names in examples.
<u>June 30, 2016</u>	<u>Version 1.5</u>
	<ul style="list-style-type: none"> • <u>Update to conditionality of REF Reference Identification (Previous Utility Customer Account Number) segment.</u>



	Notes pertaining to the use of this document
Purpose	<ul style="list-style-type: none"> This 814 Consumption History Transaction Set is used to request either electric or gas history on a customer’s account. A request for a customer’s history data may also be made in conjunction with an enrollment request (See the NY 814 Enrollment Transaction Implementation Guide). These standards are based on the ASC X12 Ver/Rel 004010 standard and related UIG guidelines.
One account per 814	<ul style="list-style-type: none"> Each transaction may contain only one account for one commodity (i.e. electric or gas). ESCO’s who want to receive a customer’s consumption history for both electric and gas service must transmit two 814 history requests – one for the electric history and another for the gas history.
All meters per account	<ul style="list-style-type: none"> Except for requests sent to a utility that supports separate enrollment of the un-metered electric service for accounts, an EDI request for consumption history is a request for history data for all service delivery points (metered and/or un-metered) for the account requested for the commodity indicated. In a service territory where the 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 may separately request consumption history for the electric un-metered service on an account when both metered and un-metered service are present on the same account. To request consumption history only for the un-metered service on the account the REF03 element in the REF*12 (Utility Account Number) segment should be transmitted.
Validation Fields	<ul style="list-style-type: none"> Transactions will be validated based on the customer’s utility account number (with check digit, if included).
814 Response is Required	<ul style="list-style-type: none"> The Utility must return an 814 response, either positive or negative, for each history request received.
Cross referencing Request and Response transactions	<ul style="list-style-type: none"> The BGN02 element in the BGN segment received on a Request transaction must be returned in the BGN06 element of the BGN segment sent in the Response transaction. There must be one Response LIN for each Request LIN sent. The response to LIN loop on the Request must be uniquely identified in the LIN loop on the Response with the same identification sent in the request LIN01.

<p>Types of History Requests</p>	<ul style="list-style-type: none"> • The requests covered by this implementation guide are the request for history data (LIN05 = HU) and the request for a gas profile (LIN05=GP). • LIN05 = HU is a request for consumption history for the most recent 12-month period on an account for the commodity requested (or for the life of the account for that service, if shorter). When the 814 Request is accepted, the ESCO will receive an 867 containing the consumption history as available from the utility. Consumption history for electric customers with interval meters will be transmitted in summary form in an 867. Arrangements for access to the detailed interval data on an account must be made directly with the applicable utility since this data will not be returned in a TS867 transaction. • LIN05 = GP is a request for a gas profile for a specific customer account. The gas profile is a weather-normalized forecast derived from the customers’ consumption history. The profile represents an estimate of a customer’s gas consumption for each month in a twelve-month period. If the 814 Request is accepted, the gas profile data will be returned in an 867 transaction. For utilities that provide gas profiles (see Conditional Data Segments below),if the quantity of consumption history is insufficient to derive a profile, the GP request may be rejected. If a GP request is rejected due to insufficient data, a utility that provides gas profiles may elect to permit ESCOs to submit a new 814 Request transaction with an HU request may be transmitted. Otherwise, a customer’s Gas Profile may be periodically updated but these updates will not be transmitted via EDI.
<p>Conditional Data Segments</p>	<ul style="list-style-type: none"> • Each utility may elect to support gas profile requests and the details of a utility’s gas profile implementation will be explained in its Utility Maintained EDI Guide. If the LIN05 = GP and the Utility does not support gas profiles, the Utility will return the default consumption history on an 867 (i.e. up to 12 months of usage, or the life of the account).
<p>Definitions</p>	<ul style="list-style-type: none"> • 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 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: <ul style="list-style-type: none"> ➤ The end-use customer (Code 8R) ➤ The Utility (LDC) (Code 8S) ➤ The Supplier (ESCO or ESCO) (Code SJ).

Companion Documents	<ul style="list-style-type: none">• All of the business rules applicable to consumption history requests in New York are not necessarily documented in this implementation guide. Accordingly, the following documents should be reviewed where further clarification is necessary:<ul style="list-style-type: none">➤ Business Processes – Consumption History➤ TS814 Consumption History Request & Response Data Dictionary➤ TS814 Enrollment Request & Response Implementation Guide.
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Implementation Guideline Field Descriptions

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

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.

The Utility account number assigned to the customer is used for validation and must be present on all transactions.

REF~12~011231287654398

One or more examples.

Data Element Summary

	<u>Ref Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>X12 Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier 12 Billing Account REF02 contains the Utility-assigned account number for the customer.	M/ ID 2/3
Must Use	REF02	127	Reference Identification Utility assigned customer account number The utility account number must be supplied and cannot contain non-alphanumeric characters. (Characters on a bill, for example, should be removed)	AN 1/30

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

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

814 Consumption History Request and Response

Functional Group ID=**GE**

Introduction:

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

Notes:

A request for a customer's history data may be included as a secondary request in a TS 814 enrollment request for that customer or as a separate stand-alone request. This guideline is limited to such stand-alone requests for either historic consumption (the HU request) OR a gas profile (the GP request).

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
2	010	ST	Transaction Set Header	M	1		
3	020	BGN	Beginning Segment	M	1		
							1
4	040	N1	Name (ESCO)	O	1		
							1
5	040	N1	Name (Utility)	O	1		
							1
6	040	N1	Name (Customer)	O	1		
7	050	N3	Address Information (Service Address)	O	1		
8	060	N4	Geographic Location (Service Address)	O	1		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
							1
9	010	LIN	Item Identification	O	1		
11	020	ASI	Action or Status Indicator	O	1		
12	030	REF	Reference Identification (Reject Response Reasons)	O	>1		
13	030	REF	Reference Identification (Response Information or Warnings)	O	1		
14	030	REF	Reference Identification (ESCO Customer Account Number)	O	1		
15	030	REF	Reference Identification (Utility Account Number)	O	1		
16	030	REF	Reference Identification (Previous Utility Account Number)	O	1		
17	030	REF	Reference Identification (Utility Account Number for ESCO)	O	1		
18	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.

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

Comments:

Notes: Request: Required
Response: Required

ST~814~0001

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Mand. ST01	143	Transaction Set Identifier Code 814	M ID 3/3 General Request, Response or Confirmation
Mand. ST02	329	Transaction Set Control Number	M AN 4/9 Identifying control number assigned by the originator of a transaction set. This identifier must be unique for each transaction set within a functional group.

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

Comments:

Notes:

Request: Required
 Response: Required

 Request: BGN~13~20060301145101~20060301
 Response: BGN~11~20060402072434~20060302~~~20060301145101

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Mand. BGN01	353	Transaction Set Purpose Code 11 Response 13 Request	M ID 2/2
Mand. BGN02	127	Reference Identification A unique transaction identifier assigned by the originator of this transaction. The BGN02 element from a request transaction is placed in the BGN06 element on the transaction sent in response to the request. This number must be unique over time.	M AN 1/30
Mand. BGN03	373	Date The date the transaction was created by the sender's application system in the form CCYYMMDD.	M DT 8/8
Cond. BGN06	127	Reference Identification This is the BGN02 identification number sent in the original Request. This element is not used on a Request but is required on a Response.	O AN 1/30

Segment: N1 Name (ESCO)
Position: 040
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

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

Notes: Request: Required
 Response: Required
 N1~SJ~~24~123456789

Data Element Summary

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

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

Notes:
 Request: Required
 Response: Required

N1~8S~UTILITY NAME~1~012345678

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Mand. N101	98	Entity Identifier Code 8S Consumer Service Provider (CSP) Identifies the Utility participating in this transaction.	M ID 2/3
Optional N102	93	Name Free Form Utility Company Name Supplemental text information that may be supplied to provide "eyeball" identification of the Utility. It is not necessary for successful completion of the transaction but may be provided by mutual agreement between trading partners.	X AN 1/60
Must Use N103	66	Identification Code Qualifier 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	X ID 1/2
Must Use N104	67	Identification Code The D-U-N-S number or the Federal Tax ID	X AN 2/80

Segment: N1 Name (Customer)
Position: 040
Loop: N1 Optional
Level: Heading
Usage: Optional
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:

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

Notes: Request: Optional
 Accept Response: Conditional
 Other Responses: Not Used
 N1~8R~NAME
 N1~8R~MARY SMITH

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	N101	98	Entity Identifier Code 8R Consumer Service Provider (CSP) Customer Identifies the end use customer targeted by this transaction.	M ID 2/3
Must Use	N102	93	Name Supplemental text information that 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. Some utilities may not provide the actual customer name but will send the literal 'NAME' in this position. To ensure compliance with ANSI X12 requirements, this segment must be sent in an Accept Response when the Response contains service address information (see segments N3 and N4).	X AN 1/60

Segment: N3 Address Information (Service Address)
Position: 050
Loop: N1 Optional
Level: Heading
Usage: Optional (Dependent)
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Notes:
 Request : Not Used
 Accept Response: Conditional
 Other Responses: Not Used
 N3~123 N MAIN ST~Service Address Overflow

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
Mand.	N301	166	Address Information	M AN 1/55
			Customer Service Address	
Cond.	N302	166	Address Information	O AN 1/55
			Service address overflow	

Segment: N4 Geographic Location (Service Address)
Position: 060
Loop: N1 Optional
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:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Request: Not Used
 Accept Response: Conditional
 Other Responses: Not Used
 N4~MYCITY~NY~19123
 N4~MYCITY~NY~191230123

Data Element Summary

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

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

Notes:
 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.

LIN~AACDD0102005A~SH~EL~SH~HU Request for Historic Usage
 LIN~AACDD0102006A~SH~EL~SH~GP Request for Gas Profile

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	LIN01	350	Assigned Identification 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. This identifier must be unique over time to ensure no ambiguity between requests and responses.	O AN 1/20
Mand.	LIN02	235	Product/Service ID Qualifier SH Service Requested	M ID 2/2
Mand.	LIN03	234	Product/Service ID Commodity - there may be only one commodity (Electric or Gas) for each 814 transaction. EL GAS	M AN 1/48
Must Use	LIN04	235	Product/Service ID Qualifier SH Service Requested	X ID 2/2

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

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.

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

Syntax Notes:
Semantic Notes:
Comments:
Notes:

Request: Required
 Response: Required

Identifies the action to be taken or the status of a requested action for the service identified in the LIN segment.

ASI~7~029 Request
 ASI~WQ~029 Accept Response
 ASI~U~029 Reject Response

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	ASI01	306	Action Code	M ID 1/2
			7 AC	Request Acknowledge
			U	This code is sent to acknowledge receipt of a request for historic usage or gas profile for an account that is traditionally processed 'off-line'. A response for these requests will be sent via non-EDI means. Reject
			WQ	Inability to accept for processing due to the lack of required information
Mand.	ASI02	875	Maintenance Type Code	M ID 3/3
			029	Accept Inquiry

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:

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

Semantic Notes:

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

Comments:
Notes:

Request: Not Used
 Reject Response: Required (ASI01 = U)
 Other Responses: Not Used

REF~7G~HUR
 REF~7G~CAB
 REF~7G~A13~HU NOT SUPPORTED

To send additional system message in an 814 ACCEPT response, please refer to the REF~1P segment.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier 7G Data Quality Reject Reason Reason for Reject Response	M ID 2/3
Must Use	REF02	127	Reference Identification A13 Other See REF03. A76 <u>Account # not valid</u> A91 Account does not have service requested Requested commodity does not exist on account. CAB Customer Account Block HUR Historical Usage not Released HUU Historical Usage not Available New Customer - No usage or non-usage information is available via EDI, e.g. this is a new customer. Limited non-usage information may exist; ESCOs should refer to the Utility Maintained EDI Guide to determine how to obtain information.	X AN 1/30
Cond.	REF03	352	Description Text information to clarify the reason for the reject response. REF03 must be sent when REF02 contains A13.	X AN 1/80

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: Conditional
 REF~1P~HUL

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier 1P Accessorial Status Code Warnings or information associated with an accepted status notification	M ID 2/3
Must Use	REF02	127	Reference Identification A13 Other See REF03. HUL Historical Usage Limited This is limited to the PTD*FG loop in the 867HU transaction. i.e. no usage data to be reported or exchanged.	X AN 1/30
Cond.	REF03	352	Description 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.	X AN 1/80

Segment: **REF** Reference Identification (ESCO Customer Account Number)
Position: 030
Loop: LIN Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Request: Optional
 Response: Optional
 REF~11~A12345009Z

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier 11 Account Number Number identifies a telecommunications industry account REF02 is the ESCO Assigned account number for the customer.	M ID 2/3
Must Use	REF02	127	Reference Identification ESCO Marketer Assigned account number for the customer.	X AN 1/30

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.
Comments:
Notes: Request: Required
 Response: Required
 REF~12~011231287654398

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier 12 Billing Account REF02 is the Utility-assigned account number for the customer.	M ID 2/3
Must Use	REF02	127	Reference Identification Utility Assigned 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)	X AN 1/30
Cond.	REF03	352	Description Where a utility supports separate enrollment of the un-metered electric service for accounts, the REF03 element in the REF*12 segment should only be sent to, or received by, 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.	X AN 1/80
			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.

Comments:

Notes:

Request: Not Used

Accept Response: Where a utility changes an existing customer's account number as a business process (and as noted in its Utility Maintained EDI Guide), this segment is Required-required when the utility assigned account number for the customer has changed in the last 90 days.

REF~45~9194132485705971

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier 45 Old Account Number REF02 is the Utility's previous account number for the customer.	M ID 2/3
Must Use	REF02	127	Reference Identification 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.	X AN 1/30

Segment: **REF** Reference Identification (Utility Account Number for ESCO)
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.
Comments:
Notes: Request: Conditional
 Response: Conditional
 This segment is used to communicate an account number assigned by the Utility to the ESCO and may be sent with the mutual agreement of the parties.
 REF~AJ~3134597

Data Element Summary

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

Segment: SE Transaction Set Trailer
Position: 150
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:
Semantic Notes:

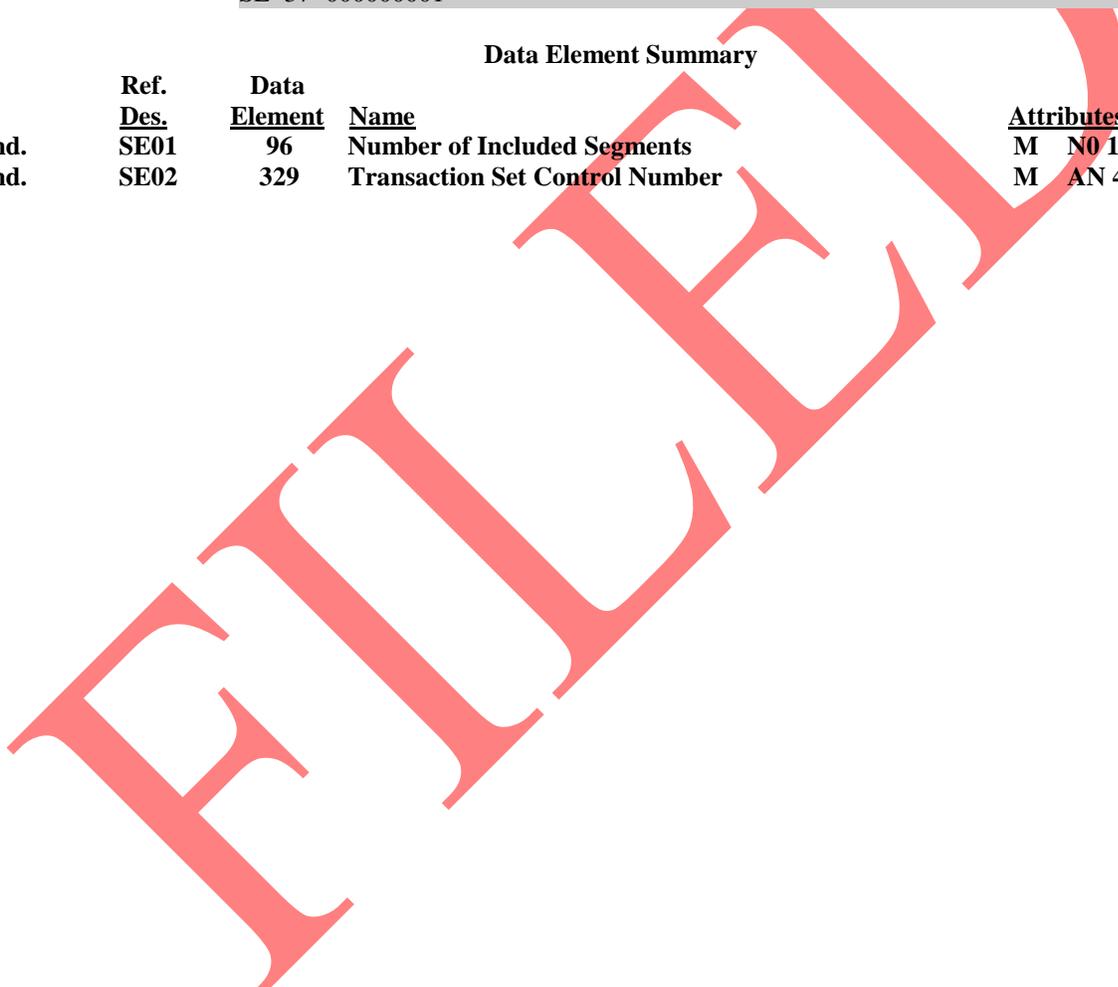
Comments: 1 SE is the last segment of each transaction set.

Notes: Request: Required
 Response: Required

SE~37~000000001

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Mand.	SE01	96	Number of Included Segments	M N0 1/10
Mand.	SE02	329	Transaction Set Control Number	M AN 4/9



EXAMPLES

These examples are presented for illustrative purposes only. Although they are syntactically correct with respect to the published transaction standard for the TS814 Consumption History 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 would map a specific transaction.

Scenario 1: Request for a Gas Profile

ST*814*0034/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*13*20000301145101*20060608/	Transaction is a Request ; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*1234467899/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006982359/	Utility Name and DUNS number
N1*8R*CUSTOMER NAME/	Customer Name
LIN*AACDD0102006A*SH*GAS*SH*GP/	Unique transaction reference number; service is Gas ; request is for a Gas Profile
ASI*7*029/	Transaction is a Request ; action is an Inquiry
REF*11*A12345009Z/	ESCO assigned account number for the customer
REF*12*2339393600100025/	Utility assigned account number for the customer
SE*10*0034/	Transaction Set trailer; segment count; control number

Scenario 1: Accept Response

ST*814*0034/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*11*200106Q1145103*20060610***20000301145101/	Transaction is a Response ; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*1234467899/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006982359/	Utility Name and DUNS number
N1*8R*CUSTOMER NAME/	Customer Name
N3*136-39 41 AVE/	Customer Service Address-Street
N4*FLUSHING*NY*11355/	Customer Service Address-City/State
LIN*ZZXXYY0901001C*SH*GAS*SH*GP/	Unique transaction reference number; service is Gas ; response pertains to Request for Gas Profile
ASI*WQ*029/	Status is Accept ; action is an Inquiry
REF*11*A12345009Z/	ESCO assigned account number for the customer
REF*12*2339393600100025/	Utility assigned account number for the customer
SE*12*0034/	Transaction Set trailer; segment count; control number

Scenario 1: Reject Response

ST*814*0034/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*11*200106Q1145103*20060610***20000301145101/	Transaction is a Response ; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*1234467899/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006982359/	Utility Name and DUNS number
N1*8R*CUSTOMER NAME/	Customer Name
LIN*ZZXXYY0901001C*SH*GAS*SH*GP/	Unique transaction reference number; service is Gas ; response pertains to Request for Gas Profile
ASI*U*029/	Status is Reject ; action is an Inquiry
REF*7G*A13*NO DATA FOR GP SEND HU REQ/	Reject reason code and qualifier
REF*11*A12345009Z/	ESCO assigned account number for the customer
REF*12*2339393600100025/	Utility assigned account number for the customer
SE*11*0034/	Transaction Set trailer; segment count; control number

Scenario 2: Request for Historic Usage

ST*814*0039/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*13*20000301145101*20060608/	Transaction is a Request ; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*006749723/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*24*160612110/	Utility Name and Tax Id number
N1*8R*CUSTOMER NAME/	Customer Name
LIN*AACCDD0102006A*SH*EL*SH*HU/	Unique transaction reference number; service is Electric ; request is for Historic Usage
ASI*7*029/	Status is Request ; action is an Inquiry
REF*11*A12345009Z/	ESCO assigned account number for the customer
REF*12*96135/	Utility assigned account number for the customer
SE*10*0039/	Transaction Set trailer; segment count; control number

Scenario2: Accept Response

ST*814*0041/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*11*20010610E96135*20060610***20000301145101/	Transaction is a Request ; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*006749723/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*24*160612110/	Utility Name and Tax Id number
N1*8R*CUSTOMER NAME/	Customer Name
N3*1001 SCOTTSDALE RD/	Customer Service Address - Street
N4*ROCHESTER*NY*14624-5121/	Customer Service Address - City/State
LIN*HUE9613520010610A*SH*EL*SH*HU/	Unique transaction reference number; service is Electric ; request is for Historic Usage
ASI*WQ*029/	Status is Accept ; action is an Inquiry
REF*11*A12345009Z/	ESCO assigned account number for the customer
REF*12*96135/	Utility assigned account number for the customer
SE*12*0041/	Transaction Set trailer; segment count; control number

Scenario 2: Reject Response – Historical Block

ST*814*0045/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*11*20010610E96135*20060610***20000301145101/	Transaction is a Response ; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*006749723/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*24*160612110/	Utility Name and Tax Id number
LIN*HUE9613520010610A*SH*EL*SH*HU/	Unique transaction reference number; service is Electric ; response pertains to Request for Historic Usage
ASI*U*029/	Status is Reject ; action is an Inquiry
REF*7G*HUR/	Reject reason code - Historic Usage Not Released
REF*11*A123450009Z/	ESCO assigned account number for the customer
REF*12*96135/	Utility assigned account number for the customer
SE*13*0045/	Transaction Set trailer; segment count; control number

Scenario 2: Reject Response – Enrollment Block and Historical Block

ST*814*0045/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*11*20010610E96135*20060610***20000301145101/	Transaction is a Response ; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*006749723/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*24*160612110/	Utility Name and Tax Id number
LIN*HUE9613520010610A*SH*EL*SH*HU/	Unique transaction reference number; service is Electric ; response pertains to Request for Historic Usage
ASI*U*029/	Status is Reject ; action is an Inquiry
REF*7G*CAB/	Reject Reason for Enrollment Block and Historical Block
REF*11*A12345009Z/	ESCO assigned account number for the customer
REF*12*2339393600100025/	Utility assigned account number for the customer
SE*11*0034/	Transaction Set trailer; segment count; control number

Scenario 3: Request for Historic Usage

ST*814*0040/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*13*20000301145101*20010608/	Transaction is a Request ; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*745862317/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763/	Utility Name and DUNS number
N1*8R*CUSTOMER NAME/	Customer Name
LIN*AACCDD0102006A*SH*EL*SH*HU/	Unique transaction reference number; service is Electric ; request is for Historic Usage
ASI*7*029/	Status is Request ; action is an Inquiry
REF*11*A12345009Z/	ESCO assigned account number for the customer
REF*12*158103080400027/	Utility assigned account number for the customer
SE*10*0040/	Transaction Set trailer; segment count; control number

Scenario 3: Acknowledge Response

ST*814*0042/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*11*158103080400027E0610A*20060610***20000301145101/	Transaction is a Request ; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*745862317/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763/	Utility Name and DUNS number
LIN*1581030800400027HRSP*SH*EL*SH*HU/	Unique transaction reference number; service is Electric ; request is for Historic Usage
ASI*AC*029/	Request is Acknowledged ; action is an Inquiry
REF*11*A123450009Z/	ESCO assigned account number for the customer
REF*12*158103080400027/	Utility assigned account number for the customer
REF*45*158100980400027/	Previous Utility account number for this customer
REF*AJ*3134597/	Utility Account Number for ESCO
SE*11*0042/	Transaction Set trailer; segment count; control number

Scenario 3: Reject Response

ST*814*0046/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*11*158103080400027E0610A*20060614***20000301145101/	Transaction is a Response ; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*745862317/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006977763/	Utility Name and DUNS number
LIN*1581030800400027HRSP*SH*EL*SH*HU/	Unique transaction reference number; service is Electric ; response pertains to Request for Historic Usage
ASI*U*029/	Status is Reject ; action is an Inquiry
REF*7G*A91/	Reject reason code - No Electric Service on this account
REF*11*A123450009Z/	ESCO assigned account number for the customer
REF*12*158103080400027/	Utility assigned account number for the customer
SE*13*0046/	Transaction Set trailer; segment count; control number

Scenario 4: Request for a Gas Profile

ST*814*0034/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*13*20000301145101*20060608/	Transaction is a Request ; Unique id number for this transaction; transaction creation date
N1*SJ*ESCO NAME*1*1234467899/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006982359/	Utility Name and DUNS number
N1*8R*CUSTOMER NAME/	Customer Name
LIN*AACDD0102006A*SH*GAS*SH*GP/	Unique transaction reference number; service is Gas ; request is for a Gas Profile
ASI*7*029/	Transaction is a Request ; action is an Inquiry
REF*11*A12345009Z/	ESCO assigned account number for the customer
REF*12*2339393600100025/	Utility assigned account number for the customer
SE*10*0034/	Transaction Set trailer; segment count; control number

Scenario 4: Reject Response – Enrollment Block and Historical Block

ST*814*0034/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*11*200106Q1145103*20060610***20000301145101/	Transaction is a Response ; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*1234467899/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006982359/	Utility Name and DUNS number
N1*8R*CUSTOMER NAME/	Customer Name
LIN*ZZXXYY0901001C*SH*GAS*SH*GP/	Unique transaction reference number; service is Gas ; response pertains to Request for Gas Profile
ASI*U*029/	Status is Reject ; action is an Inquiry
REF*7G*CAB/	Reject Reason for Enrollment Block and Historical Block
REF*11*A12345009Z/	ESCO assigned account number for the customer
REF*12*2339393600100025/	Utility assigned account number for the customer
SE*11*0034/	Transaction Set trailer; segment count; control number

Scenario 4: Reject Response – Historical Block

ST*814*0034/	Transaction Set header; transaction defined is an 814 ; control number assigned by originator
BGN*11*200106Q1145103*20060610***20000301145101/	Transaction is a Response ; Unique id number for this transaction; transaction creation date; BGN02 from Request transaction
N1*SJ*ESCO NAME*1*1234467899/	ESCO Name and DUNS number
N1*8S*UTILITY NAME*1*006982359/	Utility Name and DUNS number
N1*8R*CUSTOMER NAME/	Customer Name
LIN*ZZXXYY0901001C*SH*GAS*SH*GP/	Unique transaction reference number; service is Gas ; response pertains to Request for Gas Profile
ASI*U*029/	Status is Reject ; action is an Inquiry
REF*7G*HUR/	Historical Block
REF*11*A12345009Z/	ESCO assigned account number for the customer
REF*12*2339393600100025/	Utility assigned account number for the customer
SE*11*0034/	Transaction Set trailer; segment count; control number

REJECT