

Case No. 12-M-0476 et al.
EDI Business/Technical Working Groups
814HU Gray Box Note Modifications
11/9/2018

Gray Boxed conventions standardized with the 814HU IG using the convention:

ESCO Request:
Utility Response:

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: ESCO Request: Required
Utility Response: Required

ST~814~0001

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	ST01	143	Transaction Set Identifier Code 814 General Request, Response or Confirmation	M ID 3/3
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: ESCO Request: Required
Utility Response: Required

Request: BGN~13~20060301145101~20060301

Response: BGN~11~20060402072434~20060302~~~20060301145101

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	<p><u>ESCO</u> Request: Required</p> <p><u>Utility</u> Response: Required</p> <p>N1~SJ~~24~123456789</p>

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
Mand.	N101	98	Entity Identifier Code SJ Service Provider Identifies the ESCO/DERS participating in this transaction.	M ID 2/3
Optional	N102	93	Name Free Form ESCO/DERS Company Name Supplemental text information supplied, if desired, to provide "eyeball" identification of the ESCO/DERS. 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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	<p><u>ESCO</u> Request: Required</p> <p><u>Utility</u> Response: Required</p> <p>N1~8S~UTILITY NAME~1~012345678</p>

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
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 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.	
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 Optional
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To identify the customer in this transaction.
Syntax Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	<p><u>ESCO</u> Request: Optional</p> <p><u>Accept-Utility</u> Response: Conditional</p> <p><u>The Utility sends this segment on 814 ACCEPT responses only. Other Responses: Not Used</u></p> <p>N1~8R~NAME N1~8R~MARY SMITH</p>

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	N101	98	Entity Identifier Code 8R	M ID 2/3
			Consumer Service Provider (CSP) Customer Identifies the end use customer targeted by this transaction.	
Must Use	N102	93	Name	X AN 1/60
			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).	

Segment: **N3** Address Information (Service Address)
Position: ~~050060~~
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:

~~ESCO~~ Request : Not Used
~~Aaccept-Utility~~ Response: Conditional

~~The Utility sends this segment on 814 ACCEPT responses only. Other Responses: Not Used~~

N3~123 N MAIN ST~Service Address Overflow

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</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:	060 070
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:	<p>1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.</p> <p>2 N402 is required only if city name (N401) is in the U.S. or Canada.</p>
Notes:	<p><u>ESCO</u> Request: Not Used</p> <p><u>Accept-Utility</u> Response: Conditional</p> <p><u>Other Responses: Not Used</u>The Utility sends this segment on 814 ACCEPT responses only.</p> <p>N4~MYCITY~NY~19123</p> <p>N4~MYCITY~NY~191230123</p>

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	<p><u>ESCO</u> Request : Required</p> <p><u>Utility</u> Response: Required</p> <p>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. Only one Secondary LIN loop is allowed per request.</p> <p>LIN~AACCCDD0102005A~SH~EL~SH~HU Request for Historic Usage</p> <p>LIN~AACCCDD0102006A~SH~EL~SH~GP Request for Gas Profile</p>

Data Element Summary

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

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.

HI**Historic Interval Usage**

Request for Interval Usage History at the account level.

Indicates an ESCO/DERS request to obtain historical interval usage information for this customer. If this customer account does not have interval meter, 867HU report will be provided without Interval Usage.

HG**Historic Interval Usage**

Request for Interval Usage History at the meter detail level.

Indicates an ESCO/DERS request to obtain historical interval usage information for this customer at the meter detail level. If this customer account does not have interval meter, 867HU report will be provided without Interval 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:

Comments:

Notes:

ESCO Request: Required
Utility 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

	Ref.	Data			
	<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Mand.	ASI01	306	Action Code		M ID 1/2
			7	Request	
			AC	Acknowledge	
				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.	
			U	Reject	
				Inability to accept for processing due to the lack of required information	
			WQ	Accept	
Mand.	ASI02	875	Maintenance Type Code		M ID 3/3
			029	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:

- 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:

ESCO Request: Not Used

Reject Utility Response: ~~Required~~ Conditional

For 814 REJECT responses, the Utility must send (ASI~01 = U) otherwise the segment is not sent.

Other Responses: ~~Not Used~~

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

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

	Ref.	Data	Name	Attributes
	Des.	Element		M ID 2/3
Mand.	REF01	128	Reference Identification Qualifier	
			7G	Data Quality Reject Reason
				Reason for Reject Response
Must Use	REF02	127	Reference Identification	X AN 1/30
			A13	Other
				See REF03.
			A76	Account # not valid
			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 and DERS should refer to the Utility Maintained EDI Guide to determine how to obtain information.
Cond.	REF03	352	Description	X AN 1/80
				Text information to clarify the reason for the reject response.
				REF03 must be sent when 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:	<ol style="list-style-type: none"> 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:	<p><u>ESCO</u> Request: Not used</p> <p><u>Utility</u> Response: Conditional</p> <p>REF~1P~HUL</p>

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification	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.
			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.
			NIA	Not Interval Account
			NMA	Net Metered Account
				Interval Usage is not meaningful. 867HU will be provided without interval usage.
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 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:

ESCO Request: Optional
Utility Response: Optional

REF~11~A12345009Z

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>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/DERS Assigned account number for the customer.	M ID 2/3
Must Use	REF02	127	Reference Identification ESCO/DERS 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:

ESCO Request: Required

Utility Response: Required

REF~12~011231287654398

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification 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. U Un-Metered Service	X AN 1/80

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:

ESCO Request: Not Used

Accept-Utility Response: Conditional

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 when the utility assigned account number for the customer has changed in the last 90 days.

REF~45~9194132485705971

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>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:

ESCO Request: Conditional

Utility Response: Conditional

This segment is used to communicate an account number assigned by the Utility to the ESCO/DERS and may be sent with the mutual agreement of the parties.

REF~AJ~3134597

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Mand.	REF01	128	Reference Identification Qualifier AJ	M ID 2/3
			Accounts Receivable Customer Account REF02 contains the Utility assigned account number for the ESCO/DERS	
Must Use	REF02	127	Reference Identification Utility account number for the ESCO/DERS	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:** ESCO Request: Required
Utility Response: Required

SE~37~000000001

Data Element Summary

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