# Ohio Electric

# Implementation Guideline

For

**E**lectronic **D**ata **I**nterchange

TRANSACTION SET

814

**Enrollment Request and Response** 

Ver/Rel 004010

	Summary of Changes
Version 1.0.0 May 1, 2001	Initial Release
Version 1.5.0 May 1, 2001	<ul> <li>Add rejection code for minimum stay account "not eligible to shop" per Change Control 4.</li> <li>Add code for budget billing per Change Control 5.</li> <li>Clarify usage of the AMT*RJ segment per Change Control 6.</li> <li>Remove the Summary pages (usually pages 2 and 3) from the implementation guides. These pages are automatically created by Foresight, but the last round of changes to the documents was done in Word and has not been updated in Foresight per Change Control 22.</li> </ul>
Version 2.0.0 December 31, 2001	<ul> <li>Add code for Government Aggregation per Change Control 26.</li> <li>Add new enrollment rejection reason code of C02 to Ref 7G to reject enrollments for end use customer accounts with EDU arrears in excess of Purchase of Receivables contractual limits</li> </ul>
Version 2.1.0 June 30, 2002	<ul> <li>Added note to N1~8R segment to show AP validates on first 4 characters of customer name per change control 48.</li> <li>Added gray boxes with conditions in the PER segment per change control 49.</li> <li>Added text to title on N1, N3, N4, PER pages to show which N1 per change control 50</li> <li>Updated REF~Q5 gray boxes to show SDID per change control 51</li> </ul>
Version 2.2.0 October 1, 2005	<ul> <li>Removed value ESP from REF*PC per change control 59.</li> <li>Modified REF02 and add REF03 line in REF*PG loop for FirstEnergy use only to insert coding for adding group aggregation code information per change control 65.</li> </ul>
Version 2.3.0 March 9, 2010	During 3/3/10 meeting, the OSPO Data Working Group reviewed & confirmed EDI change controls up to and including CC67. All changes in the v2.2.0 redline were accepted and v2.3.0 created as the new baseline for Ohio.
Version 2.4.0 February 14, 2012	<ul> <li>Added AEP as user of REF02 and REF03 in REP*PG segment as per EDI Change Control 68</li> <li>Added AMT*KC and AMT*KZ segments, update terms for each as per EDI Change Control 69.</li> <li>Incorporated AEP's administrative changes as per EDI Change Control 70.</li> <li>Incorporated DP&amp;L's administrative changes as per EDI Change Control 71.</li> <li>Incorporated Duke Energy Ohio's administrative changes as per EDI Change Control 72.</li> <li>Corrected gray box of REF*TZ as per EDI Change Control 74</li> <li>Removed SR and SW as applicable services in the LIN05. Removed SR and SW from ASI02 = 029 gray box. Removed W09 and W11 as applicable reject reason codes. All changes made as per EDI Change Control 76</li> <li>Added DP&amp;L as user of REF02 and REF03 in REP*PG segment as per EDI Change Control 77.</li> </ul>
Version 2.5.0 February 15, 2013	<ul> <li>Added AEP as user of REF02 GAG in REF*PG segment as per EDI Change Control 78.</li> <li>Incorporated FirstEnergy's administrative changes as per EDI Change Control 81.</li> <li>Added Duke Energy Ohio support of government aggregation in the REF*PG as per EDI Change Control 90.</li> <li>Added Service Voltage and Loss Factor to the 814E as per EDI Change Control 91. Change Effective 5/25/2012 for FirstEnergy companies only, not used by other EDUs</li> <li>Added four new codes to REF7G as per EDI Change Control 96.</li> <li>Added 'UNE' code to REF7G as per EDI Change Control 98.</li> </ul>
Version 2.6.0 March 24, 2014	<ul> <li>Incorporated Change Control 103 Update (Add Net Meter Indicator)</li> <li>Incorporated Change Control 105 &amp; 114 (REFLF &amp; REFSV required by AEP &amp; FirstEnergy)</li> <li>Incorporate Change Control 109 (removal of A77 code in REF7G)</li> </ul>
Version 2.6.1 February 13, 2015 Version 2.6.2	Incorporated Change Control 118 (REFSPL to optional)  Learner and Change Control 127 (AED OHN) at Matter Properties
February 11, 2016	Incorporated Change Control 127 (AEP OH Net Meter Reporting)

Version 2.6.3 February 8, 2018	<ul> <li>Incorporated Change Control 144 (Update the 814E to add a REF*PID segment to be used if enrolling under a TOU billing program)</li> <li>Incorporated Change Control 148 (Add new reject codes to the 814E to support AEP's TOU Market Transition)</li> </ul>
Version 2.6.4 February 28, 2019	<ul> <li>Incorporated Change Control 154 (Update gray boxes under NM1 to allow "ALL" as the only valid value in NM109 on the 814E Request)</li> <li>Incorporated Change Control 157 (Changes to add Dayton Power &amp; Light (DP&amp;L) use of the REF*KY and REF*PID on the 814E and 814C and add new program type of "CRES Net Metering" to the REF02 of the REF*PID on the 814E and 814C.)</li> <li>Incorporated Change Control 159 (Add three new reject codes (FRH, FRI, FRJ) to the 814E and 814C specific to SCB)</li> <li>Incorporated Change Control 165 (FirstEnergy is no longer sending the REF*45 line in EDI transactions as of December 7th 2018. This is an administrative Change Control only to remove the sentence "FirstEnergy will always send if noted on the account in CIS system." from the gray box area in the above noted transactions.)</li> <li>Incorporated Change Control 166 (Update the 814 E to remove the bill options listed for being required for the Budget Billing Status. The only option not listed is Supplier Consolidated Billing, which would also have the requirement.)</li> </ul>
Version 2.7.0 July 21, 2020	<ul> <li>Incorporated Change Control 171 to clarify the use of the default process if the Summary Interval Request is not sent.</li> <li>Incorporated Change Control 173 to allow Rejection Reason Code A91 – Invalid Service (Commodity).</li> <li>Incorporated Change Control 175 to require CRES Net Metering Program (REF*PID) when customer has a CRES net metering contract. Reject Reason Code ATI was also updated to remove the limitation of being used for AEP's TOU program and instead could be used for any program identified in the PID.</li> <li>Updated ANSI X12 looping structure</li> <li>Normalized utility names FirstEnergy and DP&amp;L and AEP</li> </ul>
Version 2.7.1 April 14, 2021	Incorporated Change Control 180 to remove segments not used by the utilities, including the N1, N3, N4 and PER for N101 = 2C (Party to Receive Copies of Bills) and PK (Party to Receive Copies of Notices).

## 814 General Request, Response or Confirmation

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.

### **Heading:**

M	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. <u>Des.</u> M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
M	020	BGN	Beginning Segment	M	1		
			LOOP ID - N1			>1	
	040	N1	Name	О	1		n1
	060	N3	Address Information	O	2		
	070	N4	Geographic Location	О	1		

#### **Detail:**

	Pos. No.	Seg. <u>ID</u>	Name	Req. Des.	Max.Use	Loop <u>Repeat</u>	Notes and Comments
	1101	<u>10</u>	LOOP ID - LIN	<u>Des.</u>	Huntese	>1	Comments
	010	LIN	Item Identification	О	1		
	020	ASI	Action or Status Indicator	O	1		
	030	REF	Reference Identification	O	>1		
	040	DTM	Date/Time Reference	O	>1		
	060	AMT	Monetary Amount	O	>1		
			LOOP ID - NM1			>1	
	080	NM1	Individual or Organizational Name	О	1		n2
	130	REF	Reference Identification	O	>1		
	140	DTM	Date/Time Reference	О	>1		
M	150	SE	Transaction Set Trailer	M	1		

#### **Transaction Set Notes**

- 1. The N1 loop is used to identify the transaction sender and receiver.
- 2. The NM1 loop is used to identify the parties associated with the individual line item (LIN), such as an individual consumer in a consolidated third party Consumer Service Provider transaction.

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~814~000000001

M	Ref. Des. ST01	Data Element 143	Name Transaction Set Identifier Code	Attr M	ributes ID 3/3
			Code uniquely identifying a Transaction Set 814 General Request, Response or Confirma	ation	
M	ST02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the trafunctional group assigned by the originator for a transaction set.		AN 4/9 ion set

BGN Beginning Segment **Segment:** 

**Position:** 020

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

**Purpose:** To indicate the beginning of a transaction set **Syntax Notes:** If BGN05 is present, then BGN04 is required. **Semantic Notes:** BGN02 is the transaction set reference number.

BGN03 is the transaction set date.

3 BGN04 is the transaction set time.

BGN05 is the transaction set time qualifier.

BGN06 is the transaction set reference number of a previously sent transaction

affected by the current transaction.

**Comments:** 

**Notes:** Request: Required

Response: Required

BGN~13~199904011956531~19990401 BGN~11~199904020830531~19990401

#### **Data Element Summary**

	Ref.	Data						
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>				
M	BGN01	353	Transaction Set Purpose Code	M ID 2/2				
			Code identifying purpose of transaction set					
			11 Response					
			Request					
M	BGN02	127	Reference Identification	M AN 1/30				
			Reference information as defined for a particul specified by the Reference Identification Quality					
			A unique transaction identification number assigned by the originator of this transaction. This number must be unique over all time.					
			Transaction Reference numbers will only contadigits (0 to 9). Note that punctuation (spaces,					
M	BGN03	373	Date	M DT 8/8				
			Date expressed as CCYYMMDD					

The transaction creation date - the date that the data was processed by the sender's application system.

 $\textbf{Segment:} \qquad \textbf{N1} \ \ \textbf{Name} \ (\textbf{8S-EDU})$ 

**Position:** 040

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

**Purpose:** To identify a party by type of organization, name, and code

**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must

provide a key to the table maintained by the transaction processing party.

N105 and N106 further define the type of entity in N101.

**Notes:** Required

Response: Required

N1~8S~EDU COMPANY~1~007909411~~40

	Ref. Des.	Data <u>Element</u>	Name		Δttı	ributes	
M	N101	98	Entity Identifier C	Code		ID 2/3	
			Code identifying an individual	organizational entity, a physical location	, prop	perty or an	
			8S	Consumer Service Provider (CSP)			
				EDU			
M	N102	93	Name		X	AN 1/60	
			Free-form name				
			EDU				
M	N103	103 66	<b>Identification Cod</b>	e Qualifier	X	ID 1/2	
			Code designating the Code (67)	ne system/method of code structure used for	or Ide	entification	
			1	D-U-N-S Number, Dun & Bradstreet			
			9	D-U-N-S+4, D-U-N-S Number with For Suffix	ur Ch	aracter	
M	N104	67	<b>Identification Cod</b>	e	$\mathbf{X}$	AN 2/80	
			Code identifying a p	party or other code			
			EDU D-U-N-S Number or D-U-N-S + 4 Number				
M	N106	98	<b>Entity Identifier C</b>	code	О	ID 2/3	
			Code identifying an individual	organizational entity, a physical location	, prop	perty or an	
			40	Receiver			
			41	Submitter			

Segment: N1 Name (SJ - CRES)

**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.

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.

N105 and N106 further define the type of entity in N101.

**Notes:** Required

Response: Required

N1~SJ~CRES COMPANY~9~007909411CRES~~40

	Ref.	Data	NT	, , , , , , , , , , , , , , , , , , ,	<b>.</b>	•1 4	
M	<u>Des.</u> N101	Element 98	<u>Name</u> Entity Identifier (	Code	M	ributes ID 2/3	
1,1	11101 70	70	•	n organizational entity, a physical location			
			SJ	Service Provider			
				CRES			
M	N102	93	Name		X	AN 1/60	
			Free-form name				
			CRES				
M	N103	66	<b>Identification Cod</b>	le Qualifier	X	ID 1/2	
			Code designating to Code (67)	Code designating the system/method of code structure used to Code (67)			
			1	D-U-N-S Number, Dun & Bradstreet			
			9	D-U-N-S+4, D-U-N-S Number with Fo Suffix	ur Ch	naracter	
M	N104	67	<b>Identification Cod</b>	le	X	AN 2/80	
			Code identifying a	party or other code			
			CRES D-U-N-S N	umber or D-U-N-S + 4 Number			
M	N106	98	<b>Entity Identifier (</b>	Code	O	ID 2/3	
			Code identifying an individual	n organizational entity, a physical location	, proj	perty or an	
			40	Receiver			
			41	Submitter			

 $Segment: \qquad N1 \ \ Name \ (8R-Customer)$ 

**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.

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.

N105 and N106 further define the type of entity in N101.

Notes: Required Required

Accept Response: Required

Reject Response: Required unless rejected for invalid EDU account number.

N1~8R~CUSTOMER NAME~92~STORE 73

N1~8R~CUSTOMER NAME

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	<u>Attr</u>	<u>ributes</u>	
M	N101	98	<b>Entity Identifier Code</b>	$\mathbf{M}$	ID 2/3	
			Code identifying an organizational entity, a physical location individual	n, prop	perty or an	
			8R Consumer Service Provider (CSP) Cu	stomer		
			Customer			
M	N102	93	Name	X	AN 1/60	
			Free-form name			
			Customer name as documented in the sender's application s	ystem.		
C	N103	66	<b>Identification Code Qualifier</b>	X	ID 1/2	
			Code designating the system/method of code structure used Code (67)	for Ide	entification	
			Condition: Required if available.			
			92 Assigned by Buyer or Buyer's Agent			
C	N104	67	<b>Identification Code</b>	X	AN 2/80	
			Code identifying a party or other code			
			Store Number			
			Condition: Required when available.			

 ${\bf Segment:} \qquad {\bf N3} \ \ {\bf Address} \ {\bf Information} \ ({\bf 8R-Customer \ Service \ Address})$ 

**Position:** 060

**Loop:** N1 Optional

Level: Heading Usage: Optional

Max Use: 2

**Purpose:** To specify the location of the named party

Syntax Notes: Semantic Notes:

**Comments:** 

Notes: Request: Optional

CE Accept Response: Required for Customer Service Address

All other Responses: Not Used N3~123 N MAIN ST~MS FLR 13

M	Ref. <u>Des.</u> N301	Data <u>Element</u> 166	Name Address Information	Attributes M AN 1/55
			Address information	
			Customer Service Address	
C	N302	166	Address Information	O AN 1/55
			Address information	
			Customer Service Address Overflow Condition: If there is an overflow, it must be sent.	

Segment: N4 Geographic Location (8R - Customer Service Address)

**Position:** 070

Loop: N1 Optional

Data

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named partySyntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

Pof

**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: CE Request: Optional

CE Accept Response: Required for Customer Service Address

All other Requests: Not Used All other Responses: Not Used

N4~ANYTOWN~OH~19999~US~CO~COLUMBIA N4~ANYTOWN~OH~199990001~US~CO~54871

N4~ANYTOWN~OH~19999~US N4~MISSISSAUGA~ON~L4W4E4~CA

	Ref.	Data						
	Des.	<b>Element</b>	<u>Name</u>	Att	<u>ributes</u>			
M	N401	19	City Name	O	AN 2/30			
			Free-form text for city name					
M	N402	156	State or Province Code	O	ID 2/2			
			Code (Standard State/Province) as defined by appropriate go	vernr	nent agency			
M	N403	116	Postal Code	O	ID 3/15			
			Code defining international postal zone code excluding punc (zip code for United States)					
			Postal codes will only contain uppercase letters (A to Z) and Note that punctuation (spaces, dashes, etc.) must be excluded		s (0 to 9).			
0	N404	26	Country Code	O	ID 2/3			
			Code identifying the country					
			For country codes not listed, please refer to ISO 3166.					
			US United States					
C	N405	309	Location Qualifier	X	ID 1/2			
			Code identifying type of location					
			Condition: Will be sent if it is in the EDU's system and is rec	uirec	l for tax			
			purposes.					
			CO County/Parish and State					
			Service Address County/Parish					
C	N406	310	Location Identifier	O	AN 1/30			
			Code which identifies a specific location					
			Condition: Will be sent if it is in the EDU's system and is required for tax purposes.  Service Address County/Parish					

Segment:  ${\bf PER}$  Administrative Communications Contact (8R - Customer Service

Address)

**Position:** 080

Loop: N1 Optional

Level: Heading Usage: Optional 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:** Comments:

**Notes:** Request: Not Used

CE Accept Response: Must send for Service Address if maintained in the EDU system.

All Other Responses: Not Used

Used to convey information about the customer at the service address.

PER~IC~CONTACT NAME~TE~6145551212

	Ref.	Data		•		
	Des.	<b>Element</b>	<u>Name</u>			<u>ributes</u>
M	PER01	366	Contact Fu	nction Code	M	ID 2/2
			Code identi	fying the major duty or responsibility of the perso	on or	group named
			IC	Information Contact		
M	PER02	93	Name		O	AN 1/60
			Free-form n	ame		
M	PER03	365	Communic	ation Number Qualifier	X	ID 2/2
			Code identi	fying the type of communication number		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
M	PER04	364	Communic	ation Number	X	AN 1/80
			Complete co	ommunications number including country or area	code	when
C	PER05	365	Communic	ation Number Qualifier	X	ID 2/2
			Code identi	fying the type of communication number		
			Condition: 1	Required if available		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER06	364	Communic	ation Number	X	AN 1/80
			Complete coapplicable	ommunications number including country or area	code	when
			Condition: 1	Required if available		
C	PER07	365		ation Number Qualifier	X	ID 2/2
			Code identi	fying the type of communication number		
			Condition: 1	Required if available		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER08	364	Communic	ation Number	X	AN 1/80
			Complete coapplicable	ommunications number including country or area	code	when

Condition: Required if available

 ${\bf Segment:} \qquad {\bf N1} \ \ {\bf Name} \ ({\bf RS-Scheduling} \ {\bf Coordinator})$ 

**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.

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.

N105 and N106 further define the type of entity in N101.

Notes: Required for DP&L only; otherwise not used

N1~RS~SCHEDULING COORDINATOR #2~1~345897543

		_	Data Elem	cht Summary		
	Ref.	Data Florant	Nome		A +++	ributes
	Des.	<u>Element</u>	Name	_		
M	N101	98	<b>Entity Identifier C</b>	ode	M	ID 2/3
			Code identifying an individual	organizational entity, a physical location,	prop	erty or an
			RS	Receiving Facility Scheduler		
				Scheduling Coordinator		
M	N102	93	Name		X	AN 1/60
			Free-form name			
			Name of scheduling	coordinator		
M	N103	66	<b>Identification Code</b>	e Qualifier	$\mathbf{X}$	ID 1/2
			Code designating the Code (67)	e system/method of code structure used for	r Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Foundation	ır Ch	aracter
M	N104	67	<b>Identification Code</b>		X	AN 2/80
			Code identifying a p	party or other code		
			Scheduling Coordin	ator Duns or Duns + 4 number		

**Position:** 040

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

**Purpose:** To identify a party by type of organization, name, and code

**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

**Comments:** 1 This segment, used alone, provides the most efficient method of providing

organizational identification. To obtain this efficiency the "ID Code" (N104) must

provide a key to the table maintained by the transaction processing party.

N105 and N106 further define the type of entity in N101.

Notes: Request: Not Used

CE Accept Response: Required if Billing Address is different than Service Address

All other Responses: Not Used

N1~BT~ACCOUNTS PAYABLE DIVISION

#### **Data Element Summary**

M	Ref. <u>Des.</u> N101	Data Element 98	Name Entity Identifie	er Code	Attr M	ributes ID 2/3
			Code identifying individual BT	g an organizational entity, a physical location  Bill-to-Party	, prop	erty or an
				Customer Billing Name		
M	N102	93	Name		X	AN 1/60

Free-form name

Name associated with billing address

 ${\bf Segment:} \qquad {\bf N3} \ \ {\bf Address \ Information} \ ({\bf BT - Customer \ Billing \ Address})$ 

**Position:** 060

**Loop:** N1 Optional

Level: Heading Usage: Optional

Max Use: 2

**Purpose:** To specify the location of the named party

Syntax Notes: Semantic Notes:

**Comments:** 

**Notes:** Request: Not Used

CE Accept Response: Required if Billing Address is different than Service Address

All other Responses: Not Used N3~123 N MAIN ST~MS FLR 13

M	Ref. <u>Des.</u> N301	Data <u>Element</u> 166	Name Address Information	Attributes M AN 1/55
			Address information	
			Billing Address	
C	N302	166	Address Information	O AN 1/55
			Address information	
			Billing Address Overflow Condition: If there is an overflow, it must be sent.	

 ${\bf Segment:} \qquad {\bf N4} \ \ {\bf Geographic\ Location\ (BT-Customer\ Billing\ Address)}$ 

**Position:** 070

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named partySyntax 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.

N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: Request: Not Used

CE Accept Response: Required if Billing Address is different than Service Address

All other Responses: Not Used N4~ANYTOWN~OH~19999~US N4~ANYTOWN~OH~199990001~US N4~MISSISSAUGA~ON~L4W4E4~CA

	Ref.	Data			
	Des.	<b>Element</b>	Name	Attr	<u>ibutes</u>
M	N401	19	City Name	O	AN 2/30
			Free-form text for city name		
M	N402	156	State or Province Code	O	ID 2/2
			Code (Standard State/Province) as defined by appropriate gov	vernn	nent agency
M	N403	116	Postal Code	O	ID 3/15
			Code defining international postal zone code excluding punct (zip code for United States)	uatio	n and blanks
			Postal codes will only contain uppercase letters (A to Z) and on Note that punctuation (spaces, dashes, etc.) must be excluded		(0 to 9).
M	N404	26	Country Code	0	ID 2/3
			Code identifying the country		
			For country codes not listed, please refer to ISO 3166, a versibe found at http://treetops.commerce.net/research/stats/countr		
			US United States		

 $\textbf{ Segment:} \quad \textbf{PER} \ \, \textbf{Administrative Communications Contact (BT-Customer Billing}$ 

Address)

**Position:** 080

Loop: N1 Optional

Level: Heading Usage: Optional 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:** 

**Comments:** 

**Notes:** Request: Not Used

CE Accept Response: Must send for Billing Address if maintained in the EDU system.

All Other Responses: Not Used

Used to convey information about the customer at the billing address.

PER~IC~ACCOUNTING~TE~6145551212

	Ref.	Data		, , , , , , , , , , , , , , , , , , ,		
	Des.	<b>Element</b>	<u>Name</u>		Attı	<u>ributes</u>
M	PER01	366		ınction Code	M	ID 2/2
			Code identi	fying the major duty or responsibility of the person	on or	group named
			IC	Information Contact		
M	PER02	93	Name		O	AN 1/60
			Free-form r	name		
$\mathbf{M}$	PER03	365	Communic	eation Number Qualifier	X	ID 2/2
			Code identi	fying the type of communication number		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
M	PER04	364	Communic	eation Number	X	AN 1/80
				ommunications number including country or area	code	when
C	PER05	365	applicable	eation Number Qualifier	X	ID 2/2
C	I ERUS	303		fying the type of communication number	21	110 2/2
				Required if available		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER06	364	Communic	eation Number	X	AN 1/80
			Complete c applicable	ommunications number including country or area	code	when
				Required if available		
C	PER07	365	Communic	cation Number Qualifier	X	ID 2/2
			Code identi	fying the type of communication number		
			Condition:	Required if available		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER08	364	Communic	eation Number	X	AN 1/80
			Complete c applicable	ommunications number including country or area	code	when

Condition: Required if available

Segment: LIN Item Identification

**Position:** 010

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To

**Dose:** 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.
- ${f 3}$  If either LIN08 or LIN09 is present, then the other is required.
- If either LIN10 or LIN11 is present, then the other is required.
   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:** Comments:

LIN01 is the line item identification

1 See the Data Dictionary for a complete list of IDs.

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:** 

Ref.

Processing Order: Only one service may be requested per LIN Loop. The sender must send the primary service request first within any single 814.

Response/LIN: There must be a response for each LIN request.

#### Rejections:

If the primary service request (Energy Services) is rejected, all secondary services (e.g. historical usage request, etc.) must also be rejected using REF~7G~SSR (Secondary Service Rejected).

FirstEnergy will not use the SSR but instead processes the secondary request even when the primary service request rejects.

PLEASE NOTE: SOME UTILITIES MAY CHARGE FOR MONTHLY INTERVAL DATA. TO AVOID THIS CHARGE THE SI REQUEST FOR SUMMARY DATA MUST BE SENT AS OUTLINED BELOW.

Request: Required Response: Required

Data

LIN~AECE1999123108590001~SH~EL~SH~CE

M	<u>Des.</u> LIN01	Element 350	Name Assigned Identification	Attributes O AN 1/20
			Alphanumeric characters assigned for differentiation within	a transaction set
			On the request, this is a unique tracking number for each line transaction. This number must be unique over time. This nureturned on the response transaction in the same element.  Tracking numbers will only contain uppercase letters (A to 29). Note that punctuation (spaces, dashes, etc.) must be excl	umber must be Z) and digits (0 to
$\mathbf{M}$	LIN02	235	Product/Service ID Qualifier	M ID 2/2
			Code identifying the type/source of the descriptive number of Product/Service ID (234)  SH Service Requested	used in

M	LIN03	234	Product/Service ID  Identifying number for a product or service	M	AN 1/48
			EL Electric Service		
M	LIN04	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descripti Product/Service ID (234)	ve number used in	
			SH Service Requested		
M	LIN05	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
			CE Energy Services		

CE Energy Services

Indicates this transaction relates to Energy Services.

HI Historical Interval Usage

Request to obtain historical interval usage for this customer. The usage data is returned on a Historical Interval Usage transaction (e.g. 867, web, etc.)

If Historical Interval Usage is requested, but the intervals are not available, a Historical Monthly Usage transaction will be sent.

HU Historical Monthly Usage

Request to obtain historical monthly usage information for this customer. The usage data is returned on an 867

Historical Monthly Usage transaction.

SI Summary Interval

Request to obtain summary level data for an interval customer. This may be sent with an Energy Services Enrollment or on a change transaction. (Not used by Duke Energy Ohio – CRES must send REF17 under CE service.)

Interval data, when available, must be provided at a summary level and at a detail level.

- \* As a default, interval data will be sent at the summary level by AEP, Duke, and DP&L and at the detail level by FirstEnergy.
- \* There is no charge for detail monthly data from AEP. Duke, DP&L, and FirstEnergy charge for detail monthly data. See EDU's tariff for specific charge information.
- \* If the requestor wants to receive interval data at only the summary level from FirstEnergy, then an SI request must be sent in LIN05.
- \* SENDING THE SI with REF\*17\* SUMMARY REQUEST TO FIRSTENERGY WILL ELIMINATE ANY CHARGES THAT MAY BE INCURRED FOR RECEIVING THE INTERVAL DATA.
- \* If the account is not an interval account, the request should be accepted, but a status reason code of NIA must be sent.

Segment: ASI Action or Status Indicator

**Position:** 020

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity

described

Syntax Notes: Semantic Notes: Comments:

**Notes:** 

Identifies the action to be taken or the status of a requested action for the service

identified in the LIN segment.
Request: Required
Accept Response: Required
Reject Response: Required
ASI~7~021 (Request)

ASI~WQ~021 (Accept Response) ASI~U~021 (Reject Response)

M	Ref.	Data Element	Name			ributes
M	ASI01	306	Action Code		M	ID 1/2
			Code indicating ty	pe of action		
			7	Request		
			U	Reject		
			WQ	Accept		
M	ASI02	875	Maintenance Typ	e Code	$\mathbf{M}$	ID 3/3
			Code identifying the	he specific type of item maintenance		
			021	Addition		
				Used when requesting the following ser	vices	:
				CE - Energy Services		
			029	Inquiry		
				Use when requesting the following serv	ices:	
				HI - Historical Interval Usage		
				HU - Historical Monthly Usage		
				SI - Summary Information for Interval	Accou	ınt

Segment: REF Reference Identification (CRES Account Number)

**Position:** 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

**Notes:** 

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

Account numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros

that are part of the account number must be present. Request: Optional

Accept Response: Required unless account number was not provided on the request Reject Response: Required unless account number was not provided on the request

REF~11~2348400586

#### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific Code qualifying the	<b>ation Qualifier</b> Reference Identification		ributes ID 2/3
			11	Account Number		
				CRES Account Number		
M	REF02	127	Reference Identific	ation	X	AN 1/30
				on as defined for a particular Transaction erence Identification Qualifier	Set o	or as

CRES Account Number

Segment: REF Reference Identification (EDU Account Number)

**Position:** 030

Loop: LIN Optional

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:** Comments:

**Notes:** 

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

Account numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the account number must be present.

Request: Conditional – Required for all utilities except AEP, which will use Service Delivery Identification Number.

Accept Response: Conditional - Required for all utilities except AEP, which will use Service Delivery Identification Number. FirstEnergy will send Customer Number Reject Response: Conditional - Required for all utilities except AEP, which will use Service Delivery Identification Number unless account number was not provided on the request. FirstEnergy will send Customer Number

REF~12~2931839200

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identifi Code qualifying th	ication Qualifier e Reference Identification	Att:	ributes ID 2/3
			12	Billing Account		
				EDU Account Number		
M	REF02	127	Reference Identifi	ication	$\mathbf{X}$	AN 1/30
				tion as defined for a particular Transaction reference Identification Qualifier	n Set	or as
			EDU Account Nun	nber		

 ${f REF}$  Reference Identification (Type of information) **Segment:** 

**Position:** 030

> LIN Loop: Optional

Level: Detail Usage: Optional 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.

3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes: Comments:** 

**Notes:** 

REF04 contains data relating to the value cited in REF02.

Every utility must provide the ability for a supplier to receive interval data at either the summary level or the detail level. (Duke Energy Ohio requires this to be sent under LIN

= CE)

Request: Required for interval meters Accept Response: Required for interval meters

Reject Response: Not Used

If summary or detail is not specified in the 814E: AEP: Default is Summary. No charge for detail. Duke: Default is Summary. There are charges for detail. DP&L: Default is Summary. There are charges for detail.

FirstEnergy: Default is Detail. There are charges for detail. Must request summary interval (LIN05 = SI & REF\*17\*SUMMARY) in the 814E to receive summary monthly

data.

REF~17~SUMMARY REF~17~DETAIL

#### **Data Element Summary**

M	Des. REF01	Element 128		entification Qualifier	Attı M	ributes ID 2/3
			Code qualifyii	ng the Reference Identification		
			17	Client Reporting Category		
				Used to indicate how the interval met sent (summary or detail)	ering us	sage will be
$\mathbf{M}$	REF02	127	Reference Ide	entification	X	AN 1/30
				ormation as defined for a particular Transacti	on Set o	or as

specified by the Reference Identification Qualifier

DETAIL

**SUMMARY** 

 ${f REF}$  Reference Identification (Status Reason) **Segment:** 

**Position:** 030

> Loop: LIN Optional

Level: Detail Usage: Optional 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. 3

**Semantic Notes: Comments:**  REF04 contains data relating to the value cited in REF02.

**Notes:** Request: Not Used

Accept Response: Required when status information must be conveyed.

Reject Response: Not Used

REF~1P~HUU~HISTORICAL USAGE UNAVAILABLE

			Data Elem	ent Summary	
	Ref. Des.	Data Element	Name		Attributes
M	REF01	128	Reference Identific	cation Qualifier	M ID 2/3
			Code qualifying the	Reference Identification	
			1P	Accessorial Status Code	
				Used on the response when the request i additional status information must be pr	
M	REF02	127	Reference Identific		X AN 1/30
				on as defined for a particular Transaction	Set or as
			A13	Ference Identification Qualifier Other	
			AIS	Valid for LIN05 = CE, HI, HU, SI	
				Explanation Required in REF03. When	A13 is used, an
				email should be sent to the Ohio deregu	
			A84	to determine if a new code needs to be e Invalid Relationship	established.
			A0 <del>4</del>	Valid for LIN05 = SI	
				This will be used when the requestor is	not the supplier
				of record.	11
			ABN	Duplicate Request Received	
			7.00	Valid for LIN05 = CE, HI, HU, SI	
			B30	Currently Enrolled	
				Valid for LIN05 = CE Used to indicate that the customer is alre	andy anrolled
				with the CRES that is requesting enrolln	
				transaction is treated as an inquiry.	
			HIU	Historical Interval Usage Unavailable	
				Valid for LIN05 = HI	
			HUU	Historical Monthly Usage data will be p Historical Monthly Usage Unavailable	novided instead.
			1100	Valid for LIN05 = HI, HU	
				No Historical Usage	
			MIP	Meter Install Pending	
				If this code is used, DTM~150 (Estimate	ed Start Date)
			NIA	will not be populated. Not Interval Account	
			1121 1	Valid for LIN05 = SI	
			SNP	Service Not Provided	
				Valid for LIN05 = HI, HU, SI	

REF03 may contain further information, such as "Not available via EDI, please call"

C REF03 352 Description

X AN 1/80

A free-form description to clarify the related data elements and their content Used to further describe the status reason code sent in REF02. Code "A13" requires a text explanation in this element.

Segment:  $\mathbf{REF}$  Reference Identification (Previous EDU)

**Position:** 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

**Notes:** 

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

Account numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros

that are part of the account number must be present.

Request: Not Used

Response: Required if the EDU Account Number has changed within the last 60 days. Required for all utilities except AEP, which will use Service Delivery Identification

Number.

REF~45~1105687500

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identif	ication Qualifier	Attr M	ibutes ID 2/3
			Code qualifying th	ne Reference Identification		
			45	Old Account Number		
				EDU's previous account number for the applies to the current service address. T number change as a result of the utility	his ac	count
M	REF02	127	Reference Identif	ication	$\mathbf{X}$	AN 1/30
			Reference information as defined for a particular Transaction Set or a specified by the Reference Identification Qualifier Previous EDU Account Number			

 ${f REF}$  Reference Identification (Rejection Reason) **Segment:** 

**Position:** 030

> Loop: LIN Optional

Level: Detail Usage: Optional 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. 3

**Semantic Notes: Comments:**  REF04 contains data relating to the value cited in REF02.

**Notes:** Request: Not Used Accept Response: Not Used Reject Response: Required

REF~7G~A13~ADDITIONAL REASON TEXT HERE

Data Element Summary							
	Ref. Des.	Data Element	Name		Attributes		
M	REF01	128	Reference Identific	cation Qualifier	M ID 2/3		
			Code qualifying the	Reference Identification			
			7G	Data Quality Reject Reason			
				Reject reasons associated with a reject s notification.	tatus		
M	REF02	127	Reference Identific	eation	X AN 1/30		
				on as defined for a particular Transaction erence Identification Qualifier Account exists but is not active	Set or as		
				Valid for LIN05 = CE, HI, HU, SI			
			021	Move Pending			
				Valid for LIN05 = CE Customer will be moving before the CR start date.	ES intended		
			A13	Other			
			171	Valid for LIN05 = CE, HI, HU, SI Explanation Required in REF03. When email should be sent to the Ohio deregul to determine if a new code needs to be e	lation list serve stablished.		
			A74	Energy Supplier Account Invalid or Not Valid for LIN05 = CE, HI, HU, SI	Found		
			A76	Utility Account Invalid or Not Found			
				Valid for LIN05 = CE, HI, HU, SI This code may not be used as a rejection correct previous EDU account number vand the EDU changed account numbers within the last 60 days.	vas submitted		
			A78	Service address does not match account			
			A91	Invalid Service (Commodity) Valid for LIN05 = CE, HI, HU, SI			
			ABN	Duplicate Request Received			
				Valid for LIN05 = CE, HI, HU, SI			
			ACI	Action Code (ASI01) Invalid			
				Valid for LIN05 = CE, HI, HU, SI			
			ANE	Account Not Eligible			
			ANK	Invalid Source of Information			

Valid for LIN05 = CE, HI, HU, SI Receiver of request does not provide requested service and/or does not have requested information. **ANL** Service Provider not licensed to provide requested service Valid for LIN05 = CE, HI, HU, SI ANM Competitive Retail Energy Supplier not certified by Utility Valid for LIN05 = CEAPI Required information missing (REF03 Required) Valid for LIN05 = CE, HI, HU, SI Explanation Required in REF03 Account Type Invalid ATI Valid for LIN05 = CEType of account cannot be enrolled in program B30 Currently Enrolled Valid for LIN05 = CEUsed to indicate that the customer is already enrolled with the CRES that is requesting enrollment. EDU is rejecting due to duplicate request (DP&L only) C02 Customer is on Credit Hold Valid for LIN05 = CEOnly applicable if the CRES requests EDU Consolidated Billing and the customer arrears exceeds limits outlined in purchase of receivables contract between the EDU and CRES **CMP** Customer locked with ESP Valid for LIN05 = CEThe customer has enrolled with another CRES. The customer cannot be enrolled until the pending enrollment is complete. D76 Duns Number Invalid or Not Found Valid for LIN05 = CE, HI, HU, SI DIV Date/Time Invalid or Missing Valid for LIN05 = CE**FCD** Future Contract Date Not Supported Valid for LIN05 = CEFRB Incorrect Billing Type (REF~BLT) Requested Valid for LIN05 = CE**FRC** Incorrect Bill Calculation method (REF~PC) Requested Valid for LIN05 = CE**FRH** Bill Option Not Valid – Net Metered Account (AEP Only) Valid for LIN05 = CEFRI Bill Option Not Valid – Payment Agreement (AEP Only) Valid for LIN05 = CEFRJ Bill Option Not Valid – Account in Arrears (AEP Only) Valid for LIN05 = CEIAC Invalid Aggregation Code Valid for LIN05 = CEThe REF03 in REFPG is incorrect IAT **Invalid Aggregation Indicator** Valid for LIN05 = CEThe REF02 in the REFPG is incorrect

Invalid Billing Program ID Valid for LIN05 = CE

Billing program ID requested is not valid for AEP's

April 14, 2021

**IBP** 

**IMR** Invalid Meter Register Valid for LIN05 = CEMeter is not programmed for the requested AEP TOU M76 Invalid Meter Valid for LIN05 = CE, HI, HU, SI MIP Meter Installed Pending **MSU** Minimum Stay Unsatisfied Valid for LIN05 = CEMTI Maintenance Type Code (ASI02) Invalid Valid for LIN05 = CE, HI, HU, SI NAM No AMI meter Valid for LIN05 = CENo AMI meter on the account, which is required to enroll in AEP's TOU program NFI Not First In Valid for LIN05 = CEThe customer has enrolled with another CRES. The customer cannot be enrolled until the pending enrollment is complete. NLI Not Last In Valid for LIN05 = CEThe customer has enrolled with another CRES. NMI No Meter Installed Valid for LIN05 = CENew account, no meter installed yet. Invalid Service Delivery Identification Number SDP Valid for LIN05 = CE, HI, HU, SI SSR Secondary Service Rejected Valid for LIN05 = HI, HU, SISecondary Service not performed because Primary Service was rejected. UND Cannot Identify CRES Valid for LIN05 = CE, HI, HU, SI UNE Cannot Identify EDU Valid for LIN05 = CE, HI, HU, SI W05 Requested Rate not found or not in effect on the effective

date (rate ready only)

C REF03 352 Description X AN 1/80

A free-form description to clarify the related data elements and their content Used to further describe the status reason code sent in REF02. Code "A13" requires a text explanation in this element.

Segment:  $\operatorname{REF}$  Reference Identification (Billing Type)

**Position:** 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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: Comments: 1 REF04 contains data relating to the value cited in REF02.

**Notes:** 

CE Request: Required
CE Accept Response: Required
CE Reject Response: Not Used

All other Requests: Not Used All other Responses: Not Used

REF~BLT~LDC

**Data Element Summary** 

Code qualifying the Reference Identification

BLT Billing Type

Indicates whether the bill is consolidated by the EDU or CRES, or whether each party will render their own bill.

M REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

DUAL Dual Billing

Each party bills the customer for its portion

ESP Energy Supplier Consolidated Billing

The CRES bills the customer.

LDC Utility Consolidated Billing

The EDU bills the customer

**Position:** 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

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

Notes: Request: Not Used CE Accept Response: Required

All other Accept Response: Not Used

REF~BF~11

#### **Data Element Summary**

	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>		Attı	ributes
M	REF01	128	Reference Identifie	cation Qualifier	$\mathbf{M}$	ID 2/3
			Code qualifying the	Reference Identification		
			BF	Billing Center Identification		
				EDU Billing Cycle. Cycle number who rendered.	nen the	billing will
M	REF02	127	Reference Identifie	cation	X	AN 1/30
				ion as defined for a particular Transaction	on Set o	or as

specified by the Reference Identification Qualifier

Billing Cycle Number

Segment: REF Reference Identification (KY=Special Meter Configuration)

Position: 030
Loop: LIN
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.

If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

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

Notes: CE Request: Not Use

CE Accept Response: Required if Net Meter is present (AEP, DP&L &

FirstEnergy Only)

CE Reject Response: Not Used

All other Requests: Not Used All other Responses: Not Used

REF~KY~NETMETER

**Data Element Summary** 

Ref. Data Des. **Element** Name X12 Attributes **Must Use** REF01 128 **Reference Identification Qualifier** ID 2/3 Code qualifying the Reference Identification Site Specific Procedures, Terms, and Conditions Special Meter Configuration **Must Use** REF02 127 **Reference Identification** X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

NETMETER Net Meter

**Position:** 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

**Notes:** 

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

Used to convey the budget billing status at the point of time of the enrollment. An 814

change will not be sent if the status changed.

Request: Not Used CE Accept Response: Required All other Responses: Not Used

REF~NR~Y

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identific	cation Qualifier	Attr M	ributes ID 2/3
			Code qualifying the	Reference Identification		
			NR	Progress Payment Number		
				EDU Budget Billing Status		
$\mathbf{M}$	REF02	127	Reference Identification		X	AN 1/30
			Reference information as defined for a particular Transaction Se specified by the Reference Identification Qualifier			or as
			N	No		
				The EDU is not budget billing the EDU charges customer.		
			Y	Yes		
				The EDU is budget billing the EDU chacustomer.	ırges f	for this

 $\textbf{Segment:} \quad \textbf{REF} \,\, \textbf{Reference Identification} \,\, \textbf{(Party Calculating the Charges)} \,\,$ 

**Position:** 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

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

Notes:

CE Request: Required
CE Accept Response: Required
CE Reject Response: Not Used

All other Requests: Not Used All other Responses: Not Used

REF~PC~LDC

#### **Data Element Summary**

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attr	<u>ributes</u>
M	REF01	128	Reference	e Identification Qualifier	M	ID 2/3
			Code qual	ifying the Reference Identification		
			PC	Production Code		
M	REF02	127	Reference	e Identification	X	AN 1/30
				information as defined for a particular Transaction by the Reference Identification Qualifier	Set o	or as

DUAL Each Party calculates its portion of the bill LDC The EDU calculates charges for each party

 $\textbf{Segment:} \quad \textbf{REF} \ \ \textbf{Reference Identification} \ (\textbf{Program Identifier})$ 

**Position:** 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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.

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

**Semantic Notes:** Comments:

nontee

**Notes:** CE Request: Required when a net metering contract has been entered into with a customer-generator

CE Accept Response: Conditional – Required if sent on Request

CE Reject Response: Not Used

All other Requests: Not Used All other Responses: Not Used

Multiple REF~PID segments may be sent on an 814 Enrollment Request/Response to

enroll customer in multiple programs.

REF~PID~TOD2

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attr	<u>ibutes</u>
M	REF01	128	Reference Identifi	cation Qualifier	M	ID 2/3
			Code qualifying the	e Reference Identification		
			PID	Program Identification Number		
				Program Identifier		
M	REF02	127	Reference Identifi	cation	$\mathbf{X}$	AN 1/30
			Reference informat	ion as defined for a particular Transaction	n Set o	or as
			specified by the Re	ference Identification Qualifier		
			TOD2	2 Tier Time-of-Day (AEP Only)		
			CPP3	3 Tier plus Critical Peak Pricing (AEP	Only)	
			SC	Smart Cooling (AEP Only)		
			CNM	CRES Net Metering		

Segment: REF Reference Identification (Government Aggregation)

**Position:** 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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: Comments: 1 REF04 contains data relating to the value cited in REF02.

Notes:

Dαf

CE Request Response: Required if Customer is being put on government aggregation (FirstEnergy, AEP, Duke Energy Ohio, and DP&L). Required by FirstEnergy only if

Customer is being put on non-government aggregation. CE Accept Response: Required if sent on Request

CE Reject Response: Not Used

All other Requests: Not Used All other Responses: Not Used

REF~PG~GAG

Data

#### **Data Element Summary**

M	Des. REF01	Element 128		ification Qualifier  the Reference Identification  Attributes  M ID 2/	-
			PG	Product Group	
				Aggregation	
M	REF02	127	Reference Ident	ification X AN 1	/30
				nation as defined for a particular Transaction Set or as Reference Identification Qualifier Government Aggregation	
			AGG	FirstEnergy, AEP, Duke Energy Ohio, and DP&L Group (Non Government) Aggregation FirstEnergy only	
			GAX	Governmental Aggregation – (DP&L exclude RSC AEP to exclude POLR Rider Charges)	and
$\mathbf{C}$	REF03	352	Description	X AN 1	/80

A free-form description to clarify the related data elements and their content

Required for FirstEnergy when the account is associated with an aggregation. Required for AEP and DP&L when the account is associated with a governmental aggregation ONLY. Not used by Duke Energy Ohio. The REF03 will contain the Group Aggregation Code provided the EDU. For FirstEnergy only, If the information provided in the Group Aggregation Code does not meet validation criteria, the enrollment will be accepted but a REF\*1P loop will be sent with an A13 message in the response stating "Invalid group aggregation code". For AEP and DP&L the enrollment will be rejected if the information provided does not meet the validation criteria.

 $\textbf{Segment:} \quad \textbf{REF} \ \ \textbf{Reference Identification (Standard Interconnection Point)}$ 

**Position:** 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

**Notes:** 

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

Request: Not Used
CE Accept Response: Optional
All other Responses: Not Used
REF~SPL~~MESA SUBSTATION

#### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	Name Reference Identification the		Attr M	ributes ID 2/3
			SPL	e Reference Identification Standard Point Location Code (SPLC)		
			V. 2	Point at which the utility's distribution s connected to the transmission grid for the Delivery Point (SDP).		
M	REF03	352	Description		X	AN 1/80

A free-form description to clarify the related data elements and their content

Standard Interconnection Point – Note REF03 is used, not REF02.

**Position:** 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

**Notes:** 

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

SDID numbers will only contain uppercase letters (A to Z) and Digits (0 - 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that

are part of the SDID number must be present.

Required if customer is in AEP service territory. Max 1 per transaction

REF~Q5~9876543245678DCH

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Id	entification Qualifier	Attr M	ributes ID 2/3
			Code qualifyi	ng the Reference Identification		
			Q5	Property Control Number		
				AEP assigned Service Delivery Identif	fication	n Number
M	REF02	127	Reference Id	entification	X	AN 1/30
				ormation as defined for a particular Transaction he Reference Identification Qualifier	on Set o	or as
			AEP assigned	Service Delivery Identification Number		

**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.

If either DTM05 or DTM06 is present, then the other is required.

# **Semantic Notes:** Comments:

**Notes:** 

This segment will be used by the EDU only if more than one request for a customer is

received on the same day. Time zone will always be Eastern Prevailing time.

CE Request: Required
CE Accept Response: Required
CE Reject Response: Not Used

All other Requests: Not Used All other Responses: Not Used

DTM~129~19990115~1523 DTM~129~19990115~1523~CT

PT

#### **Data Element Summary**

	Ref.	Data		•					
3.6	Des.	Element	Name			ributes			
M	DTM01	374	Date/Time Qualifie		M	ID 3/3			
			Code specifying typ	e of date or time, or both date and time					
			129	Customer Contract Effective					
				The date/time the customer agreed to ob from the CRES	tain s	service			
M	DTM02	373	Date		X	<b>DT 8/8</b>			
			Date expressed as C	CYYMMDD					
			Date						
M	DTM03	337	Time		X	TM 4/8			
C	DTM04	623	Time expressed in 24-hour clock time as follows: HHMM, or HHMMS HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes 59), S = integer seconds (00-59) and DD = decimal seconds; decimal s are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99). Time Code						
			Organization standa in hours in relation t restricted character,	Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Conditional - Only used if the time is other than Eastern time.					
			CT	Central Time					
			ET	Eastern Time					
			MT	Mountain Time					

Pacific Time

 $Segment: \quad DTM \ \, \text{Date/Time Reference (Service Period Start)}$ 

**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: Request: Not Used

CE Accept Response: Required unless pending a meter change (REF~1P = MIP)

All other Responses: Not Used

DTM~150~19990115

**Data Element Summary** 

Ref. Data Des. **Element** Name **Attributes**  $\mathbf{M}$  $\overline{DTM01}$ 374 Date/Time Qualifier M ID 3/3 Code specifying type of date or time, or both date and time 150 Service Period Start The date energy is expected to flow for this customer for the CRES. **DTM02** M 373 Date X DT 8/8

Date expressed as CCYYMMDD

Date expressed as CCYYMMDD

Segment: AMT Monetary Amount (Number of Months)

**Position:** 060

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes:

**Comments:** 

Notes: Request: Not Used

CE Accept Response: Required All other Responses: Not Used

AMT~LD~13

M	Ref. <u>Des.</u> AMT01	Data Element 522	Amount Qualifier		Attr M	ributes ID 1/3
			Code to qualify amo	ount		
			LD	Incremental		
				The number of months over which the T calculated.	otal l	kWh is
M	AMT02	782	<b>Monetary Amount</b>		M	R 1/18
			Monetary amount			
			Number of Months			

Segment: AMT Monetary Amount (Peak Demand)

**Position:** 060

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

M

Notes: Request: Not Used

CE Accept Response: Required if the meter measures demand,

otherwise not used.

All other Responses: Not Used

AMT~MA~423899.2

**Data Element Summary** 

Ref.DataDes.ElementNameAttributesAMT01522Amount Qualifier CodeM ID 1/3

Code to qualify amount

MA Maximum Amount

Peak Demand or Maximum Daily Quantity (MDQ).

M AMT02 782 Monetary Amount M R 1/18

Monetary amount Peak Demand (kW) Segment: AMT Monetary Amount (Budget Amount)

**Position:** 060

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

Notes: Request: Conditional: Required if EDU is FirstEnergy and customer is on budget

billing, not used for other EDUs.

Response: Not Used AMT~B5~80.00

	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>		<u>Attı</u>	ributes		
M	AMT01	522	Amount Qu	alifier Code	M	ID 1/3		
			Code to qual	ify amount				
			B5	Budgeted				
M	AMT02	782	Monetary A	amount	M	R 1/18		
			Monetary amount					
			Monthly Bud	dget Amount				

Segment: AMT Monetary Amount (Annual kWh Total)

**Position:** 060

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes:

**Comments:** 

Notes: Not Used

CE Accept Response: Required All other Responses: Not Used

AMT~TA~12345678.9

1/3
/18

Segment: AMT Monetary Amount (KC=Peak Load Contribution)

Position: 060
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To indicate the total monetary amount

**Syntax Notes: Semantic Notes:** 

**Comments:** 

Ref.

**Notes:** Request: Not Used

CE Accept Response: Required for PJM Participants only

All other Accept: Not Used

The value provided is at the Account or Service Delivery Identifier Number (SDI) level for AEP. Zero values may be sent if the EDU is, in fact, stating that there is no contribution for

this customer's account or SDI level.

**Example:** AMT\*KC\*752

Data

**Data Element Summary** 

Must Use AMT01 S22 Amount Qualifier Code X12 Attributes M ID 1/3

Code to qualify amount

KC Obligated

Peak Load Contribution (a.k.a. Capacity Contribution, 5CP, or Load Responsibility): Peak load contributions provided to PJM for Installed Capacity calculation

(coincident with PJM peak).

Must Use AMT02 782 Monetary Amount M R 1/18

Monetary amount

Peak Load Contribution

AMT Monetary Amount (KZ=Network Service Peak Load) **Segment:** 

**Position:** 060 Loop: LIN Level: Detail Usage: Optional Max Use: >1

**Purpose:** To indicate the total monetary amount

**Syntax Notes: Semantic Notes:** 

**Comments:** 

**Notes:** Request: Not Used

> CE Accept Response: Required for PJM Participants only

All other Accept: Not Used

The value provided is at the Account or Service Delivery Identifier Number (SDI) level for AEP. Zero values may be sent if the EDU is, in fact, stating that there is no contribution for

this customer's account or SDI.

**Example:** AMT\*KZ\*752

**Data Element Summary** 

Ref. Data Des. **Element Name** X12 Attributes **Must Use** AMT01 522 **Amount Qualifier Code** M ID 1/3

Code to qualify amount

Mortgager's Monthly Obligations ΚZ

> Network Service Peak Load (a.k.a. Transmission Contribution or 1CP): Customer's peak load contribution provided to PJM for the Transmission Service calculation (coincident with LDC peak).

**Must Use** AMT02 **782 Monetary Amount** M R 1/18

Monetary amount

Network Service Peak Load

Segment: NM1 Individual or Organizational Name (Meter Level Information)

**Position:** 080

Loop: NM1 Optional

Level: Detail
Usage: Optional
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.

If NM111 is present, then NM110 is required.

**Semantic Notes:** 1 NM102 qualifies NM103.

**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.

**Notes:** Request: Required - use "ALL"

CE Accept Response: Required. One NM1 Loop must be provided for each

Meter number. (NM109=ALL is not valid on the Response)

All other Responses: Not Used NM1~MQ~3~~~~32~1234568MG NM1~MQ~3~~~~93~UNMETERED NM1~MQ~3~~~~93~ALL

#### **Data Element Summary**

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attı	<u>ributes</u>
M	NM101	98	<b>Entity Identifier C</b>	Code	M	ID 2/3
			individual	n organizational entity, a physical location	, prop	perty or an
3.6	NIN #100	1065	MQ	Metering Location	3.7	TD 1/1
M	NM102	1065	<b>Entity Type Quali</b>		M	ID 1/1
			Code qualifying the	e type of entity		
			3	Unknown		
M	NM108	66	<b>Identification Cod</b>	le Qualifier	$\mathbf{X}$	ID 1/2
			Code designating the Code (67)	ne system/method of code structure used for Assigned by Property Operator	or Ide	entification
				Meter Number		
			93	Code assigned by the organization original transaction set	natin	g the
				This code used when a Meter Number is in NM109 (i.e., when NM109 contains '"UNMETERED").		-
M	NM109	67	<b>Identification Cod</b>	le	X	AN 2/80
			Code identifying a	party or other code		
			Request: ALL for	ALL meters		
			*	umber or UNMETERED - for Unmetered	Serv	ices

Meter numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the meter number must be present.

Segment: REF Reference Identification (Meter Multiplier)

**Position:** 130

Loop: NM1 Optional

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:** Comments:

**Notes:** 

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

There will be one REF~4P segment for each Meter Type, creating the potential for more than one REF~4P segment per NM1 Loop.

For instance, if the meter has multiple meter types, and therefore the REF~MT segment is REF~MT~COMBO, there will be multiple REF~4P segments, one to indicate the meter multiplier for each type. For example,

NM1~MQ~3~~~~32~1234568MG

REF~MT~COMBO

REF~4P~1200~K1015~TU^41

REF~4P~1~KH015

Request: Not Used

CE Accept Response: Required for each meter type for each meter that is used

for billing purposes. This segment will not be provided in

the NM1 loop for UNMETERED services.

All other Responses: Not Used REF~4P~10~KHMON~TU^41 REF~4P~1~K1MON~TU^41

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attı	<u>ributes</u>
$\mathbf{M}$	REF01	128	Reference Ident	tification Qualifier	$\mathbf{M}$	ID 2/3
			Code qualifying	the Reference Identification		
			4P	Affiliation Number		
				Meter Multiplier		
				(Ending Reading - Beginning Reading) Multiplier = Billed Usage	* Me	ter
$\mathbf{M}$	REF02	127	Reference Ident	tification	X	AN 1/30
			specified by the	nation as defined for a particular Transaction Reference Identification Qualifier	Set o	or as
			Meter Multiplier	r		
M	REF03	352	Description		X	AN 1/80
			A free-form desc	cription to clarify the related data elements a	nd the	eir content
			Meter Type (see this element.	REF~MT for valid codes). "COMBO" is no	ot a va	alid code for
M	REF04	C040	Reference Ident	tifier	0	
				or more reference numbers or identification r Reference Qualifier	numbe	ers as
			Note this is a con	mposite data element. Populate C04001 & C	0400	2.
M	C04001	128	Reference Ident	tification Qualifier	M	ID 2/3
			Code qualifying	the Reference Identification		
			TU	Trial Location Code		
				Time of Use		

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

NOTE: Other codes (as identified by UIG) can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements.

41	Off Peak
42	On Peak

43 Intermediate Peak

Shoulder

51 Totalizer

Segment: REF Reference Identification (Number of Dials)

**Position:** 130

Loop: NM1 Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

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:** Comments:

**Notes:** 

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

There will be one REF~IX segment for each applicable Meter Type, creating the potential for more than one REF~IX segment per NM1 Loop.

For instance, if the meter has multiple types, and therefore the REF~MT segment is REF~MT~COMBO, there may be multiple REF~IX segments, one to indicate the number of dials for each type that has dials. For example,

NM1~MQ~3~~~~32~1234568MG

REF~MT~COMBO REF~IX~6.0~KHMON Request: Not Used

CE Accept Response: Required for each meter type for each meter that is used

For billing purposes that has dials. This segment will not be Provided in the NM1 loop for UNMETERED services or for

All other Responses: Not Used REF~IX~6.0~KHMON~TU^41

Ref.	Data	2				
Des.	Element	<u>Name</u>		Attr	<u>ributes</u>	
REF01	128	Reference Ide	entification Qualifier	M	ID 2/3	
		Code qualifyi	ng the Reference Identification			
		IX	Item Number			
			notation X.Y means that the meter h	nas X dial		
REF02	127	Reference Ide	entification	X	AN 1/30	
		specified by tl	he Reference Identification Qualifier	ction Set o	or as	
REF03	352	Description		X	AN 1/80	
		A free-form description to clarify the related data elements and their content				
REF04	C040	Reference Ide	entifier	O		
				on numbe	ers as	
		Note that this	is a composite data element. Populate C04	001 and <b>0</b>	C04002.	
C04001	128	Reference Ide	entification Qualifier	M	ID 2/3	
		Code qualifyi	ng the Reference Identification			
		TU	Trial Location Code			
			Time of Use			
C04002	127	Reference Ide	entification	M	AN 1/30	
	Des. REF01 REF02 REF03	Des. REF01         Element 128           REF02         127           REF03         352           REF04         C040           C04001         128	Des.   Element   Name   Reference Id   Code qualifyi   IX	Des.   Element   Reference Identification Qualifier     Code qualifying the Reference Identification     IX	Des.   REF01   128   Reference Identification Qualifier   M	

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier NOTE: Other codes (as identified by UIG) can be used to identify quantities

NOTE: Other codes (as identified by UIG) can be used to identify quantities measured by the meter, but should not be used to identify tariffed/calculated measurements.

41	Off Peak
42	On Peak
43	Intermediate Peak
	Shoulder
51	Totalizer

 $REF \ {\bf Reference} \ {\bf Identification} \ (LF = Loss \ {\bf Factor})$ **Segment:** 

**Position:** 130 Loop: NM1 Level: Detail Usage: Optional 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. 3 If either C04005 or C04006 is present, then the other is required.

REF04 contains data relating to the value cited in REF02.

**Semantic Notes: Comments:** 

**Notes:** Request: Not Used

CE Accept Response: Required for AEP Ohio and FirstEnergy companies; optional for

DP&L and Duke Energy Ohio

All other Responses: Not Used

REF~LF~2

#### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Element 128	<u>Name</u> Reference Id	<u>X12</u> M	2 Attributes ID 2/3	
			Code qualifying LF	the Reference Identification Load Planning Number		
M	REF02	127	Reference Id	Loss Factor lentification	X	AN 1/30
			Reference inform	nation as defined for a particular Transaction Set or as s	pecified b	by the Reference

Identification Qualifier

Loss Factor

 ${f REF}$  Reference Identification (Load Profile) **Segment:** 

**Position:** 130

> Loop: NM1 Optional

Level: Detail Usage: Optional 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. 3

**Semantic Notes: Comments:**  REF04 contains data relating to the value cited in REF02.

**Notes:** Request: Not Used

> CE Accept Response: Required for each non-interval meter that is

used for billing purposes. This segment must also be sent when account has UNMETERED services. If a Load Profile does not exist for this

customer, this segment will not be sent.

All other Responses: Not Used

REF~LO~GS

## **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	Name Reference Identi	ification Qualifier		ributes ID 2/3
			Code qualifying t	he Reference Identification		
			LO	Load Planning Number		
				Load Profile		
M	REF02	127	Reference Identi	fication	X	AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Load Profile

REF Reference Identification (Meter Type) **Segment:** 

**Position:** 130

> Loop: NM<sub>1</sub> Optional

Level: Detail Usage: **Optional** 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.

3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes: Comments:** 

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

**Notes:** There will only be one REF~MT segment for each NM1 loop.

> If there are multiple meter types on this meter, only one REF~MT will be sent. It will contain the code COMBO. The specific meter types will be identified in REF03 for the

attributes.

Not Used Request:

CE Accept Response: Required for each meter that is used for billing

purposes. This segment will not be provided in the NM1 loop for UNMETERED services.

All other Responses: Not Used

REF~MT~KHMON REF~MT~T9DAY REF~MT~COMBO

#### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Element 128	Name Reference Identific	ation Qualifier	Attr M	ributes ID 2/3
			Code qualifying the	Reference Identification		
			MT	Meter Ticket Number		
				Meter Type		
M	REF02	127	Reference Identific	ation	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

When REF01 is MT, the meter type is expressed as a five-character field. The first two characters are the type of consumption, the last three characters are the metering interval reported for billing purposes. "COMBO" is used for a meter that records more than one measurement. Valid values can be a combination of the following values:

Type of Consumption

EA Each

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)

T9 Thousand Kilowatt Hours (MW)

Metering Interval Reported for Billing Purposes

nnn Number of minutes from 001 to 999

ANN Annual BIA Bi-annual

BIM Bi-monthly

DAY Daily

MON Monthly

QTR Quarterly TOU Time of Use

For Example:

KHMON Kilowatt Hours Per Month

K1015 Kilowatt Demand per 15 minute interval

Other Valid Codes

COMBO This code is used to indicate that the meter has multiple

measurements, e.g., one meter that measures both kWh and

Demand.

C REF03 352 Description

X AN 1/80

A free-form description to clarify the related data elements and their content Condition: Required if account has cogeneration

COGEN This is a net meter used for cogeneration

Segment:  ${\bf REF}$  Reference Identification (EDU Rate Class)

**Position:** 130

Loop: NM1 Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

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

Notes: Not Used

CE Accept Response: Required for each meter that is used for billing

purposes. This segment must also be sent when account has UNMETERED services available.

All other Responses: Not Used

REF~NH~RS1

# **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identi	ification Qualifier	Attı M	ributes ID 2/3
			Code qualifying t	the Reference Identification		
			NH	Rate Card Number		
				EDU Rate Class or Tariff		
M	REF02	127	Reference Identi	ification	X	AN 1/30
			Reference inform	nation as defined for a particular Transaction	Sate	or ac

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

**EDU Rate Class or Tariff** 

 $\pmb{REF} \ \ \textbf{Reference Identification (EDU Rate Revenue Class)}$ **Segment:** 

**Position:** 130

> Loop: NM1 Optional

Level: Detail Usage: Optional Max Use: >1

**Purpose:** To specify identifying information

At least one of REF02 or REF03 is required. **Syntax Notes:** 

> If either C04003 or C04004 is present, then the other is required. If either C04005 or C04006 is present, then the other is required. 3

**Semantic Notes: Comments:**  REF04 contains data relating to the value cited in REF02.

**Notes:** Request: Not Used

> CE Accept Response: Required if maintained by utility, must be sent

for each meter that is used for billing purposes. This segment must also be sent when account has

UNMETERED services available.

All other Responses: Not Used

REF~PR~123

## **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Io	dentification Qualifier	Attı M	ributes ID 2/3
			Code qualify	ring the Reference Identification		
			PR	Price Quote Number		
				EDU Revenue Class - Used to provide classification of a rate.	e furthe	er
M	REF02	127	Reference Id	dentification	X	AN 1/30
			Reference in	formation as defined for a particular Transacti-	on Set o	or as

specified by the Reference Identification Qualifier

EDU Revenue Class

Segment:  ${f REF}$  Reference Identification (CRES Rate Code)

**Position:** 130

Loop: NM1 Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

**Notes:** 

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

Rate codes are established between the EDU and the CRES prior to enrollment. CE Request: Required if the EDU is calculating the CRES charges (Rate Ready) CE Accept Response: Required if the EDU is calculating the CRES charges (Rate

Ready)

All other Responses: Not Used

REF~RB~OH87 REF~RB~OH87~10000

	Ref.	Data						
	Des.	<b>Element</b>	<u>Name</u>		<b>Attributes</b>			
M	REF01	128	Reference Identifica	tion Qualifier	M ID 2/3			
			Code qualifying the H	Reference Identification				
			RB	Rate code number				
				CRES Rate Code for the customer				
M	REF02	127	Reference Identifica	tion	X AN 1/30			
				Reference information as defined for a particular Transaction Set or as pecified by the Reference Identification Qualifier				
				Rate Code				
C	REF03	352	<b>Description</b> A free-form descripti	on to clarify the related data elements ar	X AN 1/80 and their content			
			•	Budget Bill Rate Amount for this service (DP&L Only)				
					1 1 CDEG			
			Condition: Required	if customer is to be on budget billing wi	th the CRES			
			NOTE: This field wil	l be limited in OH to 10 characters. Sin	ce the field will			
			_	mount, the field will be left justified with	h an implied			
			decimal. For exampl					
			\$123.45 will be provi					
			\$100.00 will be provi	ded as 10000				

 $\mathbf{Segment:} \quad \mathbf{REF} \ \mathbf{Reference} \ \mathbf{Identification} \ (\mathbf{SV} \text{=} \mathbf{Service} \ \mathbf{Voltage})$ 

Position: 130
Loop: NM1
Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** 1 REF04 comments:

REF02

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

Notes: Request: Not Used

127

CE Accept Response: Required for AEP Ohio and FirstEnergy companies; optional for

DP&L and Duke Energy Ohio

All other Responses: Not Used

REF~SV~SECONDARY

**Data Element Summary** 

Ref. Data
Des. Element Name
REF01 128 Reference Identification Qualifier

Code qualifying the Reference Identification
SV Service Charge Number
Service Voltage

Reference information as defined for a particular Transaction Set or as specified by the Reference

X

AN 1/30

Identification Qualifier

PRIMARY SECONDARY

**Reference Identification** 

Actual service voltage transmission value (Ex: 34.5kV)

Must Use

Segment:  ${f REF}$  Reference Identification (Time of Use)

**Position:** 130

Loop: NM1 Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

**Notes:** 

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

There will be one REF~TU segment for each Time Of Use reading (for each meter type

for each meter) that will be provided on the 867.

Request: Not Used

CE Accept Response: Required for each meter type for each non-interval

meter that is used for billing purposes.

All other Responses: Not Used

REF~TU~51~KHMON REF~TU~42~K1015

#### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Ident	ification Qualifier		ributes ID 2/3
			Code qualifying	the Reference Identification		
			TU	Trial Location Code		
				Time of Use: Type of metering information sent on the 867 transaction.	nation t	hat will be
M	REF02	127	Reference Ident	ification	$\mathbf{X}$	AN 1/30
			specified by the l	nation as defined for a particular Transacti Reference Identification Qualifier		
				odes (as identified by UIG) can be used to meter, but should not be used to identify t	_	•
			41	Off Peak		
			42	On Peak		
			43	Intermediate Peak		
				Shoulder		
			51	Totalizer		
M	REF03	352	Description		$\mathbf{X}$	AN 1/80

A free-form description to clarify the related data elements and their content

Meter Type (see REF~MT for valid codes). "COMBO" is not a valid code for

this element.

**Position:** 130

Loop: NM1 Optional

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

**Notes:** 

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

Meter cycles will be provided on the EDU's website.

CE Request: Not Used All other Requests: Not Used

CE Accept Response: Required for each meter that is used for billing purposes.

For unmetered services, the billing cycle is provided.

All other Responses: Not Used

REF~TZ~15

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	cation Qualifier Reference Identification	Attr M	ributes ID 2/3
			TZ	Total Cycle Number Cycle number when the meter will be re	ad.	
M	REF02	127	Reference Identific	cation	X	AN 1/30
			specified by the Ref Metered: Meter Rea	<del>-</del> -	Set o	or as
			Unmetered: Billing	Cycle		

**Position:** 130

Loop: NM1 Optional

Data

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 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:** Comments:

Ref

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

Notes: Request: Not Used

CE Accept Response: Required if available

All other Responses: Not Used

REF~ZW~SOUTHWEST

#### **Data Element Summary**

M	Des. REF01	Element 128	Name Reference Identification	ation Qualifier	Attı M	ributes ID 2/3
141	KETUI	120		Reference Identification	141	10 2/3
			ZW	Area		
				Congestion/Curtailment Zone - a geograthere are transmission constraints related of energy.		
M	REF02	127	Reference Identifica	2,7	X	AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Congestion/Curtailment Zone

Segment:  $\mathbf{SE}$  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: Required Response: Required SE~28~000000001

M	Ref. <u>Des.</u> SE01	Data Element 96	Name Number of Included Segments	Attr M	ributes N0 1/10
M	SE02	329	Total number of segments included in a transaction set included segments  Transaction Set Control Number	ding S <b>M</b>	T and SE  AN 4/9
			Identifying control number that must be unique within the trafunctional group assigned by the originator for a transaction		ion set

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Case No(s). 21-0502-EL-EDI

Summary: Application EDI Implementation Guidelines for Ohio - 814E Enrollment Request and Response electronically filed by Mr. Thomas E Rankin on behalf of Ohio EDI Working Group