Ohio Electric

Implementation Guideline

For

Electronic **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	• Add rejection code for minimum stay account "not eligible to shop" per Change Control 4. • Add code for budget billing per Change Control 5. • Clarify usage of the AMT*RJ segment per Change Control 6. • 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.
Version 2.0.0 December 31, 2001	• Add code for Government Aggregation per Change Control 26. • 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
Version 2.1.0 June 30, 2002	▪ Added note to N1~8R segment to show AP validates on first 4 characters of customer name per change control 48. ▪ Added gray boxes with conditions in the PER segment per change control 49. ▪ Added text to title on N1, N3, N4, PER pages to show which N1 per change control 50 ▪ Updated REF~Q5 gray boxes to show SDID per change control 51
Version 2.2.0 October 1, 2005	• Removed value ESP from REF*PC per change control 59. • 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.
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	• Added AEP as user of REF02 and REF03 in REP*PG segment as per EDI Change Control 68 • Added AMT*KC and AMT*KZ segments, update terms for each as per EDI Change Control 69. • Incorporated AEP's administrative changes as per EDI Change Control 70. • Incorporated DP&L's administrative changes as per EDI Change Control 71. • Incorporated Duke Energy Ohio's administrative changes as per EDI Change Control 72. • Corrected gray box of REF*TZ as per EDI Change Control 74 • 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 • Added DP&L as user of REF02 and REF03 in REP*PG segment as per EDI Change Control 77. • Added AEP as user of REF02 GAG in REF*PG segment as per EDI Change Control 78. • Incorporated First Energy's administrative changes as per EDI Change Control 81.
Version 2.5.0 February 15, 2013	• Added Duke Energy Ohio support of government aggregation in the REF*PG as per EDI Change Control 90. • Added Service Voltage and Loss Factor to the 814E as per EDI Change Control 91. Change Effective 5/25/2012 for First Energy companies only, not used by other EDUs • Added four new codes to REF7G as per EDI Change Control 96. • Added 'UNE' code to REF7G as per EDI Change Control 98.

Version 2.6.0
March 24, 2014

- Incorporated Change Control 103 Update (Add Net Meter Indicator)
- Incorporated Change Control 105 & 114 (REFLF & REFSV required by AEP & FE)
- Incorporate Change Control 109 (removal of A77 code in REF7G)

Version 2.6.1
February 13, 2015

- Incorporated Change Control 118 (REFSPL to optional)

Version 2.6.2
February 11, 2016

- Incorporated Change Control 127 (AEP OH Net Meter Reporting)

814 General Request, Response or Confirmation

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.

Transaction Set Notes

1. The N1 loop is used to identify the transaction sender and receiver.
2. The N1 loop is used to identify the transaction sender and receiver.
3. The N1 loop is used to identify the transaction sender and receiver.
4. The N1 loop is used to identify the transaction sender and receiver.
5. The N1 loop is used to identify the transaction sender and receiver.
6. The N1 loop is used to identify the transaction sender and receiver.
7. The N1 loop is used to identify the transaction sender and receiver.
8. 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			

Data Element Summary

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

Segment:	**BGN** Beginning Segment	
Position:	020	
Loop:		
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the beginning of a transaction set	
Syntax Notes:	1	If BGN05 is present, then BGN04 is required.
Semantic Notes:	1	BGN02 is the transaction set reference number.
	2	BGN03 is the transaction set date.
	3	BGN04 is the transaction set time.
	4	BGN05 is the transaction set time qualifier.
	5	BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.
Comments:		
Notes:	Request: Required Response: Required BGN~13~199904011956531~19990401 BGN~11~199904020830531~19990401	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	BGN01	353	**Transaction Set Purpose Code**	M	ID 2/2
			Code identifying purpose of transaction set		
			11 Response		
			13 Request		
M	BGN02	127	**Reference Identification**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			A unique transaction identification number assigned by the originator of this transaction. This number must be unique over all time. Transaction Reference numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.		
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.		

	Segment:		**N1** Name (8S - EDU)			

Segment: **N1** Name (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.
    2   N105 and N106 further define the type of entity in N101.
Notes: Request: Required
Response: Required
N1~8S~EDU COMPANY~1~007909411~~40

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			8S Consumer Service Provider (CSP)		
			EDU		
M	N102	93	**Name**	X	AN 1/60
			Free-form name		
			EDU		
M	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			1 D-U-N-S Number, Dun & Bradstreet		
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
M	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			EDU D-U-N-S Number or D-U-N-S + 4 Number		
M	N106	98	**Entity Identifier Code**	O	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			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.				
		2 If either N103 or N104 is present, then the other is required.				
Semantic Notes:						
Comments:		1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.				
		2 N105 and N106 further define the type of entity in N101.				

Notes: Request: Required
Response: Required
N1~SJ~CRES COMPANY~9~007909411CRES~~40

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	N101	98	**Entity Identifier Code**		M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual			
			SJ	Service Provider		
			CRES			
M	N102	93	**Name**		X	AN 1/60
			Free-form name			
			CRES			
M	N103	66	**Identification Code Qualifier**		X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)			
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
M	N104	67	**Identification Code**		X	AN 2/80
			Code identifying a party or other code			
			CRES D-U-N-S Number or D-U-N-S + 4 Number			
M	N106	98	**Entity Identifier Code**		O	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual			
			40	Receiver		
			41	Submitter		

Segment:	**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.		
	2 If either N103 or N104 is present, then the other is required.		
Semantic Notes:			
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.		
	2 N105 and N106 further define the type of entity in N101.		

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

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

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	N101	98	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			8R Consumer Service Provider (CSP) Customer		
			Customer		
M	N102	93	**Name**	**X**	**AN 1/60**
			Free-form name		
			Customer name as documented in the sender's application system.		
C	N103	66	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			Condition: Required if available.		
			92 Assigned by Buyer or Buyer's Agent		
C	N104	67	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
			Store Number		
			Condition: Required when available.		

Segment: # N3 Address Information (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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N301	166	**Address Information**	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
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1   If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1   A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
             2   N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: 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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
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 government agency		
M	N403	116	**Postal Code**	O	ID 3/15
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
			Postal codes will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.		
O	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 required 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: **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

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	PER01	366	**Contact Function Code**	M	**ID 2/2**

Code identifying the major duty or responsibility of the person or group named

    IC   Information Contact

	Ref. Des.	Data Element	Name		Attributes
M	PER02	93	**Name**	O	**AN 1/60**

Free-form name

M	PER03	365	**Communication Number Qualifier**	X	**ID 2/2**

Code identifying the type of communication number

    EM   Electronic Mail

    FX   Facsimile

    TE   Telephone

M	PER04	364	**Communication Number**	X	**AN 1/80**

Complete communications number including country or area code when applicable

C	PER05	365	**Communication Number Qualifier**	X	**ID 2/2**

Code identifying the type of communication number

Condition: Required if available

    EM   Electronic Mail

    FX   Facsimile

    TE   Telephone

C	PER06	364	**Communication Number**	X	**AN 1/80**

Complete communications number including country or area code when applicable

Condition: Required if available

C	PER07	365	**Communication Number Qualifier**	X	**ID 2/2**

Code identifying the type of communication number

Condition: Required if available

    EM   Electronic Mail

    FX   Facsimile

    TE   Telephone

C	PER08	364	**Communication Number**	X	**AN 1/80**

Complete communications number including country or area code when applicable

Condition: Required if available

			Segment:	**N1** Name (RS - Scheduling Coordinator)

Segment: **N1** Name (RS - Scheduling 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.
             2   If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1   This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
             2   N105 and N106 further define the type of entity in N101.
Notes: Required for DP&L only; otherwise not used
N1~RS~SCHEDULING COORDINATOR #2~1~345897543

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			RS Receiving Facility Scheduler		
			Scheduling Coordinator		
M	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Name of scheduling coordinator		
M	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			1 D-U-N-S Number, Dun & Bradstreet		
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
M	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			Scheduling Coordinator Duns or Duns + 4 number		

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

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code**	**M ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual	
			BT Bill-to-Party	
			Customer Billing Name	
M	**N102**	**93**	**Name**	**X AN 1/60**
			Free-form name	
			Name associated with billing address	

Segment: **N3** Address Information (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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N301	166	**Address Information**	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.		

Segment: N4 **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 party
Syntax Notes: 1   If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1   A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
      2   N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Request: Not Used
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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
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 government agency

M	N403	116	Postal Code	O	ID 3/15	

Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Postal codes will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.

M	N404	26	Country Code	O	ID 2/3	

Code identifying the country

For country codes not listed, please refer to ISO 3166, a version of which can be found at http://treetops.commerce.net/research/stats/countrycodes.html.

    US   United States

	Segment:	**PER** 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

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	PER01	366	**Contact Function Code**	**M**	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named		
			IC Information Contact		
M	PER02	93	**Name**	**O**	**AN 1/60**
			Free-form name		
M	PER03	365	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
			EM Electronic Mail		
			FX Facsimile		
			TE Telephone		
M	PER04	364	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable		
C	PER05	365	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
			Condition: Required if available		
			EM Electronic Mail		
			FX Facsimile		
			TE Telephone		
C	PER06	364	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable		
			Condition: Required if available		
C	PER07	365	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
			Condition: Required if available		
			EM Electronic Mail		
			FX Facsimile		
			TE Telephone		
C	PER08	364	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable		

Condition: Required if available

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

Notes:

Request: Not Used
CE Accept Response: Required if there is a third party to receive a copy of all notices. (Not used by AEP)

All other Responses: Not Used
N1~PK~DIFFERENT NAME

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	N101	98	**Entity Identifier Code**		**M ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			PK Party to Receive Copy		
			Third party that is to receive a copy of all notices (not bills) to the end use customer.		
M	N102	93	**Name**		**X AN 1/60**
			Free-form name		
			Name of third party that is to receive copy of all notices.		

	Segment:	**N3**	**Address Information (PK - Party to Receive copy of all notices)**

Segment: **N3** Address Information (PK - Party to Receive copy of all notices)
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 there is a third party to receive a copy of all notices.
(Not used by AEP)

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information**	**M**	**AN 1/55**
			Address information		
			Third party notice Address		
C	**N302**	**166**	**Address Information**	**O**	**AN 1/55**
			Address information		
			Third party notice address overflow		
			Condition: If there is an overflow, it must be sent.		

Segment: # N4 Geographic Location (PK - Party to Receive copy of all notices)

Position: 070
Loop: N1   Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1   If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1   A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
     2   N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Request: Not Used
CE Accept Response: Required if there is a third party to receive a copy of all notices. (Not used by AEP)

All other Responses: Not Used
N4~ANYTOWN~OH~19999~US
N4~ANYTOWN~OH~199990001~US

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
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 government agency		
M	N403	116	Postal Code	O	ID 3/15
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
			Postal codes will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.		
M	N404	26	Country Code	O	ID 2/3
			Code identifying the country		
			For country codes not listed, please refer to ISO 3166, a version of which can be found at http://treetops.commerce.net/research/stats/countrycodes.html.		
			US United States		

Segment: **PER** Administrative Communications Contact (PK - Party to Receive copy of all notices)

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 third party notice address if maintained in the EDU system. (Not used by AEP)

All Other Responses: Not Used
Used to convey information about the party to receive copies of all notices.
PER~IC~ACCOUNTING~TE~6145551212

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	PER01	366	**Contact Function Code**	M	ID 2/2

Code identifying the major duty or responsibility of the person or group named

     IC   Information Contact

	Ref. Des.	Data Element	Name		Attributes
M	PER02	93	**Name**	O	AN 1/60

Free-form name

	Ref. Des.	Data Element	Name		Attributes
M	PER03	365	**Communication Number Qualifier**	X	ID 2/2

Code identifying the type of communication number

     EM   Electronic Mail
     FX   Facsimile
     TE   Telephone

	Ref. Des.	Data Element	Name		Attributes
M	PER04	364	**Communication Number**	X	AN 1/80

Complete communications number including country or area code when applicable

	Ref. Des.	Data Element	Name		Attributes
C	PER05	365	**Communication Number Qualifier**	X	ID 2/2

Condition: Required if available

Code identifying the type of communication number

     EM   Electronic Mail
     FX   Facsimile
     TE   Telephone

	Ref. Des.	Data Element	Name		Attributes
C	PER06	364	**Communication Number**	X	AN 1/80

Complete communications number including country or area code when applicable

Condition: Required if available

	Ref. Des.	Data Element	Name		Attributes
C	PER07	365	**Communication Number Qualifier**	X	ID 2/2

Code identifying the type of communication number

Condition: Required if available

     EM   Electronic Mail
     FX   Facsimile
     TE   Telephone

	Ref. Des.	Data Element	Name		Attributes
C	PER08	364	**Communication Number**	X	AN 1/80

Complete communications number including country or area code when applicable
Condition: Required if available

Segment:　**N1** Name (2C - Party to Receive Copy of Bill)
Position:　040
Loop:　N1　　Optional
Level:　Heading
Usage:　Optional
Max Use:　1
Purpose:　To identify a party by type of organization, name, and code
Syntax Notes:　**1**　At least one of N102 or N103 is required.
　　　　　　　　2　If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:　**1**　This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
　　　　　　　2　N105 and N106 further define the type of entity in N101.
Notes:　Request:　　　　　　Not Used
CE Accept Response:　Required if there is a third party to receive a copy of all bills, not notices.
All other Responses:　Not Used
N1~2C~DIFFERENT NAME

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N101	98	Entity Identifier Code	M ID 2/3

Code identifying an organizational entity, a physical location, property or an individual
　　2C　　　　　　　Co-Participant

Third party who will receive copies of all bills, not notices.

	Ref. Des.	Data Element	Name	Attributes
M	N102	93	Name	X AN 1/60

Free-form name

Name of party that is to receive a copy of the bill.

Segment:		**N3** Address Information (2C - Party to Receive Copy of Bill)		
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 there is a third party to receive a copy of the bill. (Not used by AEP)

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information**	**M**	**AN 1/55**
			Address information		
			Party to receive copy of bill address		
C	**N302**	**166**	**Address Information**	**O**	**AN 1/55**
			Address information		
			Party to receive copy of bill Address Overflow		
			Condition: If there is an overflow, it must be sent.		

Segment:		**N4**	**Geographic Location (2C - Party to Receive Copy of Bill)**	

Position: 070
Loop: N1   Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1   If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1   A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2   N402 is required only if city name (N401) is in the U.S. or Canada.
Notes:
Request: Not Used
CE Accept Response: Required if there is another party to receive a copy of the bill.
(Not used by AEP)

All other Responses: Not Used
N4~ANYTOWN~OH~18111~US
N4~ANYTOWN~OH~181110001~US

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
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 government agency		
M	N403	116	Postal Code	O	ID 3/15
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
			Postal codes will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded.		
M	N404	26	Country Code	O	ID 2/3
			Code identifying the country		
			For country codes not listed, please refer to ISO 3166, a version of which can be found at http://treetops.commerce.net/research/stats/countrycodes.html.		
			US United States		

Segment: **PER** Administrative Communications Contact (2C - Party to Receive Copy of Bill)

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 if maintained in the EDU system. (Not used by AEP)
All Other Responses:	Not Used

Used to convey information about the party to receive copies of the bill.
PER~IC~ACCOUNTING~TE~6145551212

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	PER01	366	**Contact Function Code**	M	ID 2/2

Code identifying the major duty or responsibility of the person or group named

     IC   Information Contact

	Ref. Des.	Data Element	Name		Attributes
M	PER02	93	**Name**	O	AN 1/60

Free-form name

	Ref. Des.	Data Element	Name		Attributes
M	PER03	365	**Communication Number Qualifier**	X	ID 2/2

Code identifying the type of communication number

     EM   Electronic Mail
     FX   Facsimile
     TE   Telephone

	Ref. Des.	Data Element	Name		Attributes
M	PER04	364	**Communication Number**	X	AN 1/80

Complete communications number including country or area code when applicable

	Ref. Des.	Data Element	Name		Attributes
C	PER05	365	**Communication Number Qualifier**	X	ID 2/2

Code identifying the type of communication number

Condition: Required if available

     EM   Electronic Mail
     FX   Facsimile
     TE   Telephone

	Ref. Des.	Data Element	Name		Attributes
C	PER06	364	**Communication Number**	X	AN 1/80

Complete communications number including country or area code when applicable

Condition: Required if available

	Ref. Des.	Data Element	Name		Attributes
C	PER07	365	**Communication Number Qualifier**	X	ID 2/2

Code identifying the type of communication number

Condition: Required if available

     EM   Electronic Mail
     FX   Facsimile
     TE   Telephone

	Ref. Des.	Data Element	Name		Attributes
C	PER08	364	**Communication Number**	X	AN 1/80

Complete communications number including country or area code when applicable

Condition: Required if available

Segment:	**LIN** Item Identification			

Segment: **LIN** Item Identification

Position: 010
Loop: LIN   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:
1   If either LIN04 or LIN05 is present, then the other is required.
2   If either LIN06 or LIN07 is present, then the other is required.
3   If either LIN08 or LIN09 is present, then the other is required.
4   If either LIN10 or LIN11 is present, then the other is required.
5   If either LIN12 or LIN13 is present, then the other is required.
6   If either LIN14 or LIN15 is present, then the other is required.
7   If either LIN16 or LIN17 is present, then the other is required.
8   If either LIN18 or LIN19 is present, then the other is required.
9   If either LIN20 or LIN21 is present, then the other is required.
10   If either LIN22 or LIN23 is present, then the other is required.
11   If either LIN24 or LIN25 is present, then the other is required.
12   If either LIN26 or LIN27 is present, then the other is required.
13   If either LIN28 or LIN29 is present, then the other is required.
14   If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: 1   LIN01 is the line item identification
Comments: 1   See the Data Dictionary for a complete list of IDs.
       2   LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: 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
LIN~AECE1999123108590001~SH~EL~SH~CE

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**LIN01**	**350**	**Assigned Identification**	**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 item (LIN) in this transaction. This number must be unique over time. This number must be returned on the response transaction in the same element.

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

M	**LIN02**	**235**	**Product/Service ID Qualifier**	**M**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)
     SH   Service Requested

M	LIN03	234	**Product/Service ID**	M	AN 1/48

Identifying number for a product or service

		EL	Electric Service		

M	LIN04	235	**Product/Service ID Qualifier**	X	ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

		SH	Service Requested		

M	LIN05	234	**Product/Service ID**	X	AN 1/48

Identifying number for a product or service

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 and the detail level.
PLEASE NOTE THAT SOME UTILITIES MAY CHARGE FOR MONTHLY INTERVAL DATA.

*   If the requestor wants to receive interval data at only the summary level, then an SI request must be sent in LIN05.

SENDING THE SI REQUEST 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			

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)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	ASI01	306	**Action Code**	M	ID 1/2
			Code indicating type of action		
			7 Request		
			U Reject		
			WQ Accept		
M	ASI02	875	**Maintenance Type Code**	M	ID 3/3
			Code identifying the specific type of item maintenance		
			021 Addition		
				Used when requesting the following services: CE - Energy Services	
			029 Inquiry		
				Use when requesting the following services: HI - Historical Interval Usage HU - Historical Monthly Usage SI - Summary Information for Interval Account	

			Segment:	**REF** Reference Identification (CRES Account Number)
			Position:	030
			Loop:	LIN Optional
			Level:	Detail
			Usage:	Optional
			Max Use:	>1
			Purpose:	To specify identifying information

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.
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: 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

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			11 Account Number		
			CRES Account Number		
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		
			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:	1	REF04 contains data relating to the value cited in REF02.			
Comments:					

Notes: 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. First Energy 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. First Energy will send Customer Number

REF~12~2931839200

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			12　　　　　　Billing Account		
			EDU Account Number		
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		
			EDU Account Number		

Segment:	**REF** Reference Identification (Type of information)			
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:	1 REF04 contains data relating to the value cited in REF02.			
Comments:				
Notes:	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			
	REF~17~SUMMARY			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
			17 Client Reporting Category	
			Used to indicate how the interval metering usage will be sent (summary or detail)	
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	
			Summary or Detail	

Segment:	**REF** Reference Identification (Status Reason)		
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:	1 REF04 contains data relating to the value cited in REF02.		
Comments:			

Notes:

Request: Not Used

Accept Response: Required when status information must be conveyed.

Reject Response: Not Used

REF~1P~HUU~HISTORICAL USAGE UNAVAILABLE

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	**Reference Identification Qualifier**	M ID 2/3

Code qualifying the Reference Identification

        1P   Accessorial Status Code

                Used on the response when the request is accepted, and additional status information must be provided.

	Ref. Des.	Data Element	Name	Attributes
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

        A13   Other

                Valid for LIN05 = CE, HI, HU, SI
Explanation Required in REF03. When A13 is used, an email should be sent to the Ohio deregulation list serve to determine if a new code needs to be established.

        A84   Invalid Relationship

                Valid for LIN05 = SI
This will be used when the requestor is not the supplier of record.

        ABN   Duplicate Request Received

                Valid for LIN05 = CE, HI, HU, SI

        B30   Currently Enrolled

                Valid for LIN05 = CE
Used to indicate that the customer is already enrolled with the CRES that is requesting enrollment. The transaction is treated as an inquiry.

        HIU   Historical Interval Usage Unavailable

                Valid for LIN05 = HI
Historical Monthly Usage data will be provided instead.

        HUU   Historical Monthly Usage Unavailable

                Valid for LIN05 = HI, HU
No Historical Usage

        MIP   Meter Install Pending

                If this code is used, DTM~150 (Estimated Start Date) will not be populated.

        NIA   Not Interval Account

                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:	**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.		
	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: 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. First Energy will always send if noted on the account in CIS system
REF~45~1105687500

<div align="center">

Data Element Summary

</div>

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			45 Old Account Number		
			EDU's previous account number for the customer. Only applies to the current service address. This account number change as a result of the utility re-routing		
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		
			Previous EDU Account Number		

Segment: # REF Reference Identification (Rejection Reason)
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:
1   REF04 contains data relating to the value cited in REF02.
Comments:
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 Identification Qualifier**	M	ID 2/3

Code qualifying the Reference Identification

     7G   Data Quality Reject Reason

     Reject reasons associated with a reject status notification.

	Ref. Des.	Data Element	Name	Attributes	
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

     008   Account exists but is not active

     Valid for LIN05 = CE, HI, HU, SI

     021   Move Pending

     Valid for LIN05 = CE
     Customer will be moving before the CRES intended start date.

     A13   Other

     Valid for LIN05 = CE, HI, HU, SI
     Explanation Required in REF03. When A13 is used, an email should be sent to the Ohio deregulation list serve to determine if a new code needs to be established.

     A74   Energy Supplier Account Invalid or Not Found

     Valid for LIN05 = CE, HI, HU, SI

     A76   Utility Account Invalid or Not Found

     Valid for LIN05 = CE, HI, HU, SI
     This code may not be used as a rejection reason if the correct previous EDU account number was submitted and the EDU changed account numbers (i.e., re-route) within the last 60 days.

     A78   Service address does not match account

     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 = CE
	API	Required information missing (REF03 Required)
		Valid for LIN05 = CE, HI, HU, SI Explanation Required in REF03
	B30	Currently Enrolled
		Valid for LIN05 = CE Used 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 = CE Only 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 = CE The 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 = CE
	FRB	Incorrect Billing Type (REF~BLT) Requested
		Valid for LIN05 = CE
	FRC	Incorrect Bill Calculation method (REF~PC) Requested
		Valid for LIN05 = CE
	IAC	Invalid Aggregation Code
		Valid for LIN05 = CE The REF03 in REFPG is incorrect
	IAT	Invalid Aggregation Indicator
		Valid for LIN05 = CE The REF02 in the REFPG is incorrect
	M76	Invalid Meter
		Valid for LIN05 = CE, HI, HU, SI
	MIP	Meter Installed Pending
	MSU	Minimum Stay Unsatisfied
		Valid for LIN05 = CE
	MTI	Maintenance Type Code (ASI02) Invalid
		Valid for LIN05 = CE, HI, HU, SI
	NFI	Not First In
		Valid for LIN05 = CE The customer has enrolled with another CRES. The customer cannot be enrolled until the pending enrollment is complete.
	NLI	Not last in

				Valid for LIN05 = CE The customer has enrolled with another CRES.
	NMI			No Meter Installed
				Valid for LIN05 = CE New account, no meter installed yet.
	SDP			Invalid Service Delivery Identification Number
				Valid for LIN05 = CE, HI, HU, SI
	SSR			Secondary Service Rejected
				Valid for LIN05 = HI, HU, SI Secondary 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:	**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.	
	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:		
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

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			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	

				Segment:	**REF** Reference Identification (Billing Cycle)

Segment: **REF** Reference Identification (Billing Cycle)
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: 1   REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Request: Not Used
CE Accept Response: Required
All other Accept Response: Not Used
REF~BF~11

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
		BF	Billing Center Identification		
			EDU Billing Cycle. Cycle number when the billing will be rendered.		
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		
			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.
  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:

CE Request:	Not Used
CE Accept Response:	Required if Net Meter is present (AEP Ohio & FirstEnergy Only)
CE Reject Response:	Not Used
All other Requests:	Not Used
All other Responses:	Not Used
REF~KY~NETMETER	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	REF01	128	**Reference Identification Qualifier**	M	ID 2/3

Code qualifying the Reference Identification
  KY   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

Segment: # REF Reference Identification (EDU Budget Billing Status)

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:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	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 only if EDU consolidated or Dual.
	All other Responses: Not Used
	REF~NR~Y

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			NR Progress Payment Number		
			EDU Budget Billing Status		
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		
			N No		
			The EDU is not budget billing the EDU charges for this customer.		
			Y Yes		
			The EDU is budget billing the EDU charges for this customer.		

			Segment:	**REF** Reference Identification (Party Calculating the Charges)

Segment: **REF** Reference Identification (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.
               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:

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. Des.	Data Element	Name		Attributes
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			PC Production Code		
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 Each Party calculates its portion of the bill		
			LDC The EDU calculates charges for each party		

<table>
<tr><td align="right">Segment:</td><td># REF Reference Identification (Government Aggregation)</td></tr>
</table>

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

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	**Reference Identification Qualifier**	M ID 2/3

Code qualifying the Reference Identification

PG	Product Group
	Aggregation

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

GAG	Government Aggregation
	First Energy, AEP, Duke Energy Ohio, and DP&L
AGG	Group (Non Government) Aggregation
	First Energy only
GAX	Governmental Aggregation – (DP&L exclude RSC and AEP to exclude POLR Rider Charges)

C	REF03	352	**Description**	X AN 1/80

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

Required for First Energy 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 FE 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.

Segment:	**REF** 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.		
	2 If either C04003 or C04004 is present, then the other is required.		
	3 If either C04005 or C04006 is present, then the other is required.		
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.		
Comments:			

Notes:

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

REF~SPL~~MESA SUBSTATION

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**

Code qualifying the Reference Identification

SPL	Standard Point Location Code (SPLC)

Point at which the utility's distribution system is connected to the transmission grid for the Service Delivery Point (SDP).

	Ref. Des.	Data Element	Name	Attributes
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.

		Segment:	**REF** Reference Identification (Q5 = SDID Number)

Segment: **REF** Reference Identification (Q5 = SDID Number)
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.
              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: 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

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	REF01	128	**Reference Identification Qualifier**		M	ID 2/3
			Code qualifying the Reference Identification			
			Q5 Property Control Number			
			AEP assigned Service Delivery Identification Number			
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			
			AEP assigned Service Delivery Identification Number			

Segment:	**DTM** Date/Time Reference (Contract Effective Date)		
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:	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

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	DTM01	374	**Date/Time Qualifier**		M	ID 3/3
			Code specifying type of date or time, or both date and time			
			129	Customer Contract Effective		
			The date/time the customer agreed to obtain service from the CRES			
M	DTM02	373	**Date**		X	DT 8/8
			Date expressed as CCYYMMDD			
			Date			
M	DTM03	337	**Time**		X	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)			
C	DTM04	623	**Time Code**		O	ID 2/2
			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 it the time is other than Eastern time.			
			CT	Central Time		
			ET	Eastern Time		
			MT	Mountain Time		
			PT	Pacific Time		

Segment: **DTM** 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. Des.	Data Element	Name	Attributes	
M	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.

	Ref. Des.	Data Element	Name	Attributes	
M	DTM02	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	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	AMT01	522	**Amount Qualifier Code**	M	ID 1/3
			Code to qualify amount		
			LD Incremental		
			The number of months over which the Total kWh is calculated.		
M	AMT02	782	**Monetary Amount**	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:					

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. Des.	Data Element	Name		Attributes
M	**AMT01**	**522**	**Amount Qualifier Code**		**M 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 First Energy and customer is on budget billing, not used for other EDUs.
Response: Not Used
AMT~B5~80.00

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M	**AMT01**	**522**	**Amount Qualifier Code**	**M ID 1/3**
		Code to qualify amount	
		B5 Budgeted	
M	**AMT02**	**782**	**Monetary Amount**	**M R 1/18**
		Monetary amount	
		Monthly Budget 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:		Request: Not Used		
		CE Accept Response: Required		
		All other Responses: Not Used		
		AMT~TA~12345678.9		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	AMT01	522	**Amount Qualifier Code**	M ID 1/3
			Code to qualify amount	
			TA Total Annual Sales	
			Total kWh	
M	AMT02	782	**Monetary Amount**	M R 1/18
			Monetary amount	
			Total kWh	

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:	

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 Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	AMT01	522	Amount Qualifier Code	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

Segment:	**AMT** Monetary Amount (KZ=Network Service Peak Load)
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. Des.	Data Element	Name	X12 Attributes
Must Use	AMT01	522	Amount Qualifier Code	M ID 1/3
			Code to qualify amount	
			KZ Mortgager's Monthly Obligations	
			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.
	2 If NM111 is present, then NM110 is required.
Semantic Notes:	1 NM102 qualifies NM103.
Comments:	1 NM110 and NM111 further define the type of entity in NM101.

Notes: Request: Required - use "ALL", "UNMETERED", or provide one NM1 Loop for each meter number.
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. Des.	Data Element	Name		Attributes
M	NM101	98	**Entity Identifier Code**	M	ID 2/3

Code identifying an organizational entity, a physical location, property or an individual

	MQ	Metering Location

	Ref. Des.	Data Element	Name		Attributes
M	NM102	1065	**Entity Type Qualifier**	M	ID 1/1

Code qualifying the type of entity

	3	Unknown

	Ref. Des.	Data Element	Name		Attributes
M	NM108	66	**Identification Code Qualifier**	X	ID 1/2

Code designating the system/method of code structure used for Identification Code (67)

	32	Assigned by Property Operator
		Meter Number
	93	Code assigned by the organization originating the transaction set
		This code used when a Meter Number is NOT provided in NM109 (i.e., when NM109 contains "ALL" or "UNMETERED").

	Ref. Des.	Data Element	Name		Attributes
M	NM109	67	**Identification Code**	X	AN 2/80

Code identifying a party or other code

Meter Number or,
UNMETERED - for Unmetered Services or,
ALL - for ALL meters

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)

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

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	REF01	128	**Reference Identification Qualifier**		M	ID 2/3
			Code qualifying the Reference Identification			
			4P Affiliation Number			
			Meter Multiplier			
			(Ending Reading - Beginning Reading) * Meter Multiplier = Billed Usage			
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			
			Meter Multiplier			
M	REF03	352	**Description**		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.			
M	REF04	C040	**Reference Identifier**		O	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier			
			Note this is a composite data element. Populate C04001 & C04002.			
M	C04001	128	**Reference Identification Qualifier**		M	ID 2/3
			Code qualifying the Reference Identification			
			TU Trial Location Code			
			Time of Use			

| M | C04002 | 127 | **Reference Identification** | M AN 1/30 |

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)

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3

Code qualifying the Reference Identification

    IX   Item Number

                              Number of Dials on the Meter displayed as X.Y. The notation X.Y means that the meter has X dials to the left of the decimal point, and Y dials to the right.

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
Number of Dials

M	REF03	352	**Description**	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.

M	REF04	C040	**Reference Identifier**	O	

To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier
Note that this is a composite data element. Populate C04001 and C04002.

M	C04001	128	**Reference Identification Qualifier**	M	ID 2/3

Code qualifying the Reference Identification

    TU   Trial Location Code

                              Time of Use

M	C04002	127	**Reference Identification**	M	AN 1/30

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

<table>
<tr><td style="width:20%"></td><td>Segment:</td><td colspan="2">REF Reference Identification (LF=Loss Factor)</td></tr>
</table>

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.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Request: Not Used
	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

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			LF Load Planning Number		
			Loss Factor		
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		

			Segment:	**REF** Reference Identification (Load Profile)

Segment: **REF** Reference Identification (Load Profile)
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: 1   REF04 contains data relating to the value cited in REF02.
Comments:
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

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			Code qualifying the Reference Identification	
			LO Load Planning Number	
			Load Profile	
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	
			Load Profile	

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

Segment: **REF** Reference Identification (Meter Type)
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: 1   REF04 contains data relating to the value cited in REF02.
Comments:
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.

Request:	Not Used
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

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	**Reference Identification Qualifier**	M ID 2/3

Code qualifying the Reference Identification

     MT   Meter Ticket Number

           Meter Type

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

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.

	Segment:	**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.
		2 If either C04003 or C04004 is present, then the other is required.
		3 If either C04005 or C04006 is present, then the other is required.
	Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
	Comments:	

Notes:

Request:	Not Used
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

	Ref. Des.	Data Element	Name		Attributes	
M	REF01	128	**Reference Identification Qualifier**		M	ID 2/3
			Code qualifying the Reference Identification			
			NH	Rate Card Number		
			EDU Rate Class or Tariff			
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			
			EDU Rate Class or Tariff			

Segment:	**REF** Reference Identification (EDU Rate Revenue 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.		
	2	If either C04003 or C04004 is present, then the other is required.		
	3	If either C04005 or C04006 is present, then the other is required.		
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.		
Comments:				

Notes:	Request:	Not Used
	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

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			PR Price Quote Number		
			EDU Revenue Class - Used to provide further classification of a rate.		
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		
			EDU Revenue Class		

				Segment:	**REF** Reference Identification (CRES Rate Code)

Segment: **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.
　　　　　　　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: 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

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			RB　　　　　　　　Rate code number		
			CRES Rate Code for the customer		
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		
			Rate Code		
C	REF03	352	**Description**	X	AN 1/80
			A free-form description to clarify the related data elements and their content		
			Budget Bill Rate Amount for this service (DP&L Only)		

Condition: Required if customer is to be on budget billing with the CRES

NOTE: This field will be limited in OH to 10 characters. Since the field will contain a monetary amount, the field will be left justified with an implied decimal. For example:
$123.45 will be provided as 12345
$100.00 will be provided as 10000

Segment: # REF Reference Identification (SV=Service 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.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Request: Not Used

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. Des.	Data Element	Name		X12 Attributes	
Must Use	REF01	128	Reference Identification Qualifier		M	ID 2/3

Code qualifying the Reference Identification

SV	Service Charge Number
	Service Voltage

	Ref. Des.	Data Element	Name		X12 Attributes	
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

PRIMARY
SECONDARY
Actual service voltage transmission value (Ex: 34.5kV)

Segment:	**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.			
	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: 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

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3

Code qualifying the Reference Identification

TU	Trial Location Code	

Time of Use: Type of metering information that will be sent on the 867 transaction.

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

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	

M	REF03	352	**Description**	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.

Segment:	**REF** Reference Identification (Meter Reading Cycle)			
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:	1	REF04 contains data relating to the value cited in REF02.		
Comments:				

Notes:

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			TZ Total Cycle Number		
			Cycle number when the meter will be read.		
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		
			Metered: Meter Reading Cycle		
			Unmetered: Billing Cycle		

		Segment:	**REF** Reference Identification (Congestion/Curtailment Zone)

Segment: **REF** Reference Identification (Congestion/Curtailment Zone)
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: 1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:

Request: Not Used
CE Accept Response: Required if available
All other Responses: Not Used
REF~ZW~SOUTHWEST

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	REF01	128	**Reference Identification Qualifier**	M ID 2/3

Code qualifying the Reference Identification

ZW   Area

Congestion/Curtailment Zone - a geographic area where there are transmission constraints related to the delivery of energy.

	Ref. Des.	Data Element	Name	Attributes
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

Congestion/Curtailment Zone

Segment:		**SE** Transaction Set Trailer		
Position:		150		
Loop:				
Level:		Detail		
Usage:		Mandatory		
Max Use:		1		
Purpose:		To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)		
Syntax Notes:				
Semantic Notes:				
Comments:		**1** SE is the last segment of each transaction set.		
Notes:		Request: Required		

Response: Required
SE~28~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	SE01	96	**Number of Included Segments**	**M**	**N0 1/10**
			Total number of segments included in a transaction set including ST and SE segments		
M	SE02	329	**Transaction Set Control Number**	**M**	**AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

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Case No(s). 16-0315-EL-EDI

Summary: Text EDI Implementation Guideline for Ohio - 814 Enrollment electronically filed by Mr. Brandon S Siegel on behalf of Ohio EDI Working Group