Ohio Electric

Implementation Guideline

For

Electronic Data Interchange

TRANSACTION SET

814

Change
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

- Update the description on the 814Change for AMT*RJ segment per Change Control 3.
- Add code for budget billing per Change Control 5.
- Clarify usage of the AMT*RJ segment per Change Control 6.
- Clarify the NM1 Notes to say "Request: Required if the change is on the meter level – use …" instead of "Request: Required – use …" per Change Control 7.
- Add N1~BT Loop to 814 C – N1 loops: there is no loop to change the customer billing address. The 814 E on the contrary contains a loop N101 = "BT" identifying the customer billing address per Change Control 8.
- Add/Correct Change codes at the header/account level on the 814C per Change Control 9.
- Added the REF~PC which had been omitted in error per Change Control 14.
- Add REFPC as a valid Change Code in REF*TD segment per Change Control 19.
- 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.
- Add rejection code "ABN" (Duplicate Request) per Change Control 23.

Version 2.0.0
December 31, 2001

- Add code for Government Aggregation per Change Control 26.
- Fix gray boxes in N1, N3, N4, PER segments for N1~2C and N1~PK per Change Control 29.
- Add new rejection reason code of C02 to Ref 7G to reject 814C's for end use customer accounts in instances where the change request is from billing type "dual" to billing type "EDU consolidated" and the customer has EDU arrears in excess of Purchase of Receivables contractual limits per Change Control 34
- Add note to N1 segment for Scheduling Coordinator is used for First Energy Only for Market Support Generation per Change Control 35.
- Add "D" as a valid code to the REF03 in the REF*TD segment to allow for the deletion of certain fields per Change Control 36.

Version 2.1.0
June 30, 2002

- Correct Gray Box in the 814C for the N1, N3, N4, PER segments for Customer Billing Name and address per Change Control 44.
- Need to add code to notify supplier that MSG has expired for customer or no longer valid.
- Added note to N1~8R segment to show AP validates on first 4 characters of customer name per change control 48.
- 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	• Added the code W05, requested rate not found or not in effect on the effective date to segment REF*7G per change control 52 • Changed not in LIN segment to show that AEP, Allegheny, DP&L, and First Energy will NOT reject a transaction when sending multiple LIN loops if (1) one LIN loop is bad per change control 53. Accept all the LIN loop changes except for the LIN loops that are bad per Change Control 54. • Change the gray box for NM1MQ in the REF02 in the REF~TD under the NM1 loop to allow the sending of all codes if less than all 4 are changing per change control 55. • Added AMT Segment to the 814 change transaction: Monetary Amount (Budget Amount) per change control 57. • Removed value ESP from REF*PC per change control 59. • Add a new Reference ID of AMTBD in the REF*TD loop and an associated AMTBD loop similar to the current AMTB5 segment to reflect a customer's actual supplier account balance due amount on a monthly basis per change control 64. • On supplier requests only, modify REF02 and add REF03 line in REF*PG loop for FirstEnergy use only to insert coding for changing group aggregation code information per change control 66. • Append words to REFPG change reason code to indicate this can be used for changing the group identification code associated with FirstEnergy's Rate Stabilization Plan in addition to government aggregation per change control 67.
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 and updated 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. • Removed SR references 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. • Incorporated First Energy's administrative changes as per EDI Change Control 81. • Correct Duke Energy Ohio's requirements for bill option change as per EDI Change Control 86 Update.
Version 2.5.0 February 15, 2013	• Implemented Duke Energy Ohio support of government aggregation in the REF*PG as per EDI Change Control 90. • Implemented addition of Service Voltage and Loss Factor to the 814C as per EDI Change Control 91. Change Effective 5/25/2012 for First Energy companies only, not used by other EDUs. • Implemented ability for AEP Ohio to permit CRES to change the Aggregation Group Code in the REF03 of the REFPG without having to re-enroll the customer. Also correct 'GAX' gray box to match 814E.

814 General Request, Response or Confirmation

<div align="right">

Functional Group ID=GE

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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 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**		

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 (Request)
	BGN~11~199904020830531~19990401 (Response)

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)			

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 Name			
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 Name			
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 (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:	Supported by DP&L only

Request: Required if it is being changed
Accept Response: Required if it is being changed
Reject Response: Required unless rejected for invalid EDU account number.
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 D-U-N-S or D-U-N-S + 4 number		

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
N1~8R~CUSTOMER NAME~92~STORE 1234

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)

Store Number

Condition: Required when 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: Used only if there is a change in the service address.

Change of Customer Service Address:
 Request: Required
 Response: 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:	Used only if there is a change in the service address.

Change of Customer Service Address:
Request: Required
Response: Not Used
N4~COLUMBUS~OH~43215~US~CO~FRANKLIN

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		
			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		
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.		

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:	Used only if there is a change in the Customer's contact information

Change of Customer Communication Contact:
Request: Required
Response: Not Used
PER~IC~CUSTOMER CONTACT~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 (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: Used to change the name or address of party to receive copies of the bill.

Request: Required if it is being changed (Not used by AEP)

Accept Response: Required if it is being changed

Reject Response: Required if it is being changed unless rejected for invalid EDU account number.

N1~2C~NEW 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

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

		2C	Co-Participant	

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

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: Used only if there is a change in the Party to Receive Copy of Bill address. (Not used by AEP)

Change of Party to Receive Copy of Bill Address:
  Request: Required if it is being changed
  Response: 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		
			Address of party getting a copy of the bill.		
C	N302	166	**Address Information**	**O**	**AN 1/55**
			Address information		
			Address of party getting a copy of the bill 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: Used only if there is a change in the Party to Receive Copy of Bill address. (Not used by AEP)

Change of Party to Receive Copy of Bill Address Address:
Request: Required if it is being changed
Response: Not Used
N4~ANYTOWN~PA~181110001~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 (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:	Used only if there is a change in the Customer's Party to Receive Copy of Bill contact information(Not used by AEP)
	Change of Customer Communication Contact:
	Request: Required if it is being changed
	Response: Not Used

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 (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: Required if it is being changed
Accept Response: Required if it is being changed
Reject Response: Required if it is being changed unless rejected for invalid EDU account number.
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: Required if it is being changed
	Response: 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: Required if it is being changed
Response: 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: Required if it is being changed
Response: 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

Condition: Required if available

Code identifying the type of communication number

     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: Used to change the address of the party to receive copies of any notices.

Request: Required if it is being changed(Not used by AEP)
Accept Response: Required if it is being changed
Reject Response: Required if it is being changed unless rejected for invalid EDU account number.
N1~PK~ANOTHER 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.

	Ref. Des.	Data Element	Name	Attributes	
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 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: Used only if there is a change in the Party to Receive Notices address. (Not used by AEP)

Change of Party to Receive Notices Address:
  Request: Required if it is being changed
  Response: 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 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: Used only if there is a change in the Party to Receive Notices address. (Not used by AEP)

Change of Party to Receive Copy of Bill Address Address:
Request: Required if it is being changed
Response: Not Used
N4~ANYTOWN~PA~181110001~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		
			Condition: Required if applicable.		
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 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: Used only if there is a change in the Customer's Party to Receive Notices contact information(Not used by AEP)

Change of Customer Communication Contact:
Request: Required if it is being changed
Response: Not Used

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

Multiple Changes: Within one account/service delivery point (AEP only). DP&L and First Energy will accept multiple LIN loops. If one LIN loop is bad, For multiple LIN loops that are inter-related request to send in (1) LIN loop. The following fields should be sent in combination with one LIN/NM1 loop. Any other fields not listed below should be rejected.

Duke Energy Ohio will accept only one change per LIN loop, multiple LIN Loops may be sent; however, if any of the changes are rejected, then the entire 814 change transaction must be rejected. A rejection reason must be provided for each invalid change.

814C - From Dual to EDC Rate Ready
Following REF*TD* codes must be sent:
REF*TD*REFBLT, REF*TD*RFPC, REF*TD*REFRB, and RF*TD*AMTB5 (when applicable)
Note: REF*TD*REFRB is in the NM1 Loop
Following fields must be sent:
REF*RB, REF*BLT, REF*PC, and AMT*B5 (when applicable)
(Duke Energy Ohio does not accept REF*TD*REFPC under bill option change)

814C - From Rate Ready to Dual
Following REF*TD codes must be sent:
REF*TD*REFBLT and REF*TD*REFPC
Following fields must be sent:
REF*BLT, REF*PC
(Duke Energy Ohio does not accept REF*TD*REFPC under bill option change)

Request: Required
Response: Required
LIN~CECE1999123108590001~SH~EL~SH~CE

	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 all 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.

 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.)

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.

The Response must be a Reject (U) or an Accept (WQ); however, the WQ will mean either that the entity accepts the change and will make the change in its system, or that the entity acknowledges the change, but will not necessarily modify its own system.
Request: Required
Accept Response: Required
Reject Response: Required
ASI~7~001   (Request)
ASI~WQ~001   (Accept Response)
ASI~U~001   (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		
			001	Change	

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 use of one per transaction
REF~Q5~987654

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:	**REF** Reference Identification (CRES Account Number)

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.
Change Valid:
  From CRES to Utility

Request: Required if it was provided on the Enrollment or Change
Accept Response: Required if it was provided on the Enrollment or Change
Reject Response: Required if it was provided on the Enrollment or Change
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)			

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.

When changing the Utility's account number, the previous account number must appear in the REF~45 segment.
Change Valid: From Utility to CRES

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. 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 (Summary Interval Indicator)	
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 only to change type of information being received for interval accounts. (Duke Energy Ohio requires this to be sent under LIN = CE)	

Change Valid:
  From Non-Metering Party to Metering Party

Change of Summary Interval Indicator:
  Request: Required
  Response: Not Used
All other Change Transactions: 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 convey a request to receive summary only information, or detail and associated summary information for this interval account.

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

    DETAIL   Detail

                Metering party will send both summary and detail data for this interval account.

    SUMMARY   Summary

                Metering party will send only summary level data for this interval account.

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~A13~CHANGE NOT SUPPORTED

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

> 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.

     ABN   Duplicate Request Received

	Ref. Des.	Data Element	Name		Attributes
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 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.
Used only if the EDU changed the account number.

Change valid from EDU to CRES.

Request: Required if the Account Number is being changed. Not used by AEP.
Response: Not Used
REF~45~1105687500

Data Element Summary

	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		
			Previous 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		
			Previous EDU Account Number		

Segment:			**REF** Reference Identification (Rejection Reason)		

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, SI

     A13   Other

     Valid for LIN05 = CE, 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   CRES Account Invalid or not found

     Valid for LIN05 = CE, SI if customer is served by a CRES

     A76   Utility Account Invalid or Not Found

     Valid for LIN05 = CE, 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.

     A85   Customer is not the customer of the Requestor

     Valid for LIN05 = CE, SI

     ACI   Action Code (ASI01) Invalid

     Valid for LIN05 = CE, SI

     ANK   Invalid Source of Information

     Valid for LIN05 = CE, SI
     Receiver of request does not provide requested service and/or does not have requested information.

     C02   Customer is on Credit Hold

     Valid for LIN05 = CE
     Customer arrears exceeds limits outlined in purchase of

				receivables contract between the EDU and CRES .
		C11		Change Reason (REF~TD) Missing or Invalid
				Valid for LIN05 = CE, SI,
		D76		Duns Number Invalid or Not Found
				Valid for LIN05 = CE, SI
		FRB		Incorrect Billing Type (REF~BLT) Requested
				Valid for LIN05 = CE
		M76		Invalid Meter
				Valid for LIN05 = CE, SI
		MTI		Maintenance Type Code (ASI02) Invalid
				Valid for LIN05 = CE, SI
		SDP		Invalid Service Delivery Point Identifier
				Valid for LIN05 = CE, SI
		W05		Requested rate not found or not in effect on the effective date
				Valid for LIN05 = CE

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: Used only if changing the billing type

Change Valid: From EDU to CRES only if the EDU is providing EDU Consolidated Billing and the customer is more than 90 days past due; in which case the EDU may send a change request for Dual Billing.

From CRES to EDU anytime

Change of Billing Type:

Request: Required if it is being changed
Response: 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.

	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

DUAL   Dual Billing

Each party bills the customer for its portion

ESP   CRES Consolidated Billing

The CRES bills the customer

LDC   EDU 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: Used only if changing the billing cycle.

Change Valid: From billing party to non-billing party only.

Request: Required if it is being changed
Response: Not used
REF~BF~1

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 (Party Calculating 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:	Used only if changing the billing type

Change Valid: From EDU to CRES only if the EDU is providing EDU Consolidated Billing and the customer is more than 90 days past due; in which case the EDU may send a change request for Dual Billing.

From CRES to EDU anytime

Change of Billing Type:

Request: Required if it is being changed
Response: 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	
	Party Calculating Charges.	

	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

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

		Segment:	**REF** Reference Identification (Government Aggregation)

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: Used only if changing the Aggregation. DP&L will only support changing the REF*PG for contracts in pending enrollment status where the first supplier bill has not been issue due to system handling of aggregations. A drop and new enrollment or a single new enrollment would be necessary for changes to active contracts. Duke Energy Ohio supports the REF*PG change 7 days or more after a GAG enrollment becomes effective.

Change Valid:
From EDU to CRES: Not Used
From CRES to EDU: Anytime

Change of Aggregation:
Request: Required if it is being changed
Response: 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 use only)			
			GAX Government 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			

Conditional – required for First Energy when the account is associated with an aggregation. Required for 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 by the EDU. If the information provided in this loop does not meet validation criteria, a reject response will be sent with a reject code of A13 in a REF*7G loop. The explanation will state "Invalid group aggregation code". The Code would be rejected due to the designated Group Aggregation Code not being associated with the supplier. If the request includes multiple change types, i.e. rate change and group code change, and any of the changes are rejected the entire request will be rejected with a rejection reason provided for each invalid change.

	Segment:	**REF** Reference Identification (Reason for Change)

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: Required if change is at an account (LIN) or header level
Response: Not Used
REF~TD~REFBLT

Data Element Summary

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

Code qualifying the Reference Identification
TD   Reason for Change

	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

AMTB5   Change CRES Budget Billing Status (First Energy Only) – Must have an associated AMT~B5 or REF~RB segment
AMTBD   Change CRES Total Account Balance Due (First Energy & DP&L only) – Must have associated AMT~BD segment
AMTKC   Change Peak Load Contribution
AMTKZ   Change Network Service Peak Load
DTM150   Change Effective Start Date
DTM151   Change Effective End Date
N12C   Change Party to Receive Copy of Bill Name and/or Address (Not used by AEP)
N18R   Change Customer Name and/or Service Address
N1BT   Change Customer Billing Name and/or Address
N1PK   Change Party to Receive Notices Name and/or Service Address(Not used by AEP)
N1RS   Change Scheduling Coordinator(DP&L only)
REF11   Change CRES Account Number
REF12   Change EDU Account Number(Not used by AEP)
REF17   Change Interval Indicator
REFBF   Change Bill Cycle Number
REFBLT   Change Bill Type
REFPC   Change Party Calculating the Charges
               Duke Energy Ohio does NOT support.   CRES to send only the REF~TD~REFBLT but must include both the REFBLT and REFPC segments.
REFPG   Change Aggregation category and/or Group Aggregation Code(Not used by AEP)
REFQ5   Change AEP's SDID Number(AEP Only)

	Ref. Des.	Data Element	Name		Attributes
C	REF03	352	**Description**	X	AN 1/80

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

D   Indicates the data to be deleted

Required if deleting the following address types:
- Party to Receive copy of bills -N12C
- Billing Address –N1BT
- Party to Receive copy of notices (Not bills) –N1PK
- Government Aggregation – REFPG

Segment: # DTM Date/Time Reference (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: Request: Required on EDU Initiated Request, Not Used on CRES Initiated Request
Response: Required on EDU Initiated Response, Not Used on CRES Initiated Response
DTM~152~19990115

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		
			152 Effective Date of Change		
			The date this change will take effect or has taken effect.		
M	DTM02	373	**Date**	X	DT 8/8
			Date expressed as CCYYMMDD		
			Date expressed as CCYYMMDD		

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:	Used only if changing the start date of power flow.

Change Valid:
From EDU to CRES only

Change of Service Period Start Date:
Request: Required if the date is more than 5 calendar days (3 calendar days for First Energy) different than the original Estimated Date returned on the Enrollment Response.
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 from the CRES.		
M	DTM02	373	**Date**	X	DT 8/8
			Date expressed as CCYYMMDD		
			Date expressed as CCYYMMDD		

Segment: **DTM** Date/Time Reference (Service Period End 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:	Used only if changing the end date of power flow.

Change Valid:
From EDU to CRES only.

Change of Service Period End Date:
Request: Required if the date is more than 5 calendar days (3 calendar days for First Energy) different than the original Estimated Date returned on the Drop Response.

Response: Not Used
DTM~151~19990215

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		
			151 Service Period End		
			Estimated date that the service with the CRES will end.		
M	DTM02	373	**Date**	X	DT 8/8
			Date expressed as CCYYMMDD		
			Date expressed as CCYYMMDD		

Segment: # AMT Monetary 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:	Conditional: Required if EDU is First Energy and customer is on budget billing, not used for other EDUs AMT~B5~100.00

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 1/8
			Monthly Budget Amount		

Segment: **AMT** Monetary 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: Conditional: Required if EDU is First Energy or DP&L and customer is on budget billing, not used for other EDUs
AMT~BD~100.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	AMT01	522	**Amount Qualifier Code**	M	ID 1/3
			Code to qualify amount		
			BD Balance Due		
M	AMT02	782	**Monetary Amount**	M	R 1/8
			Customer's actual CRES account balance due		

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:	EDU to CRES Request:	Required for PJM Participants when this field changes
	Accept Response:	Not Used
	Reject Response:	Not Used
	CRES to EDU:	Not Used

Zero values may be sent if the EDU is, in fact, stating that there is no contribution for this customer's account.

For AEP - The value provided is at the Service Delivery Identifier Number 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).

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	AMT02	782	**Monetary Amount**	M R 1/18

Monetary amount
Peak Load Contribution

Segment: $\text{\huge AMT}$ **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:	EDU to CRES Request:	Required for PJM Participants when this field changes
	Accept Response:	Not Used
	Reject Response:	Not Used
	CRES to EDU:	Not Used

Zero values may be sent if the EDU is, in fact, stating that there is no contribution for this customer's account.

For AEP - The value provided is at the Service Delivery Identifier Number level.

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 if the change is at the meter level- use "ALL", "UNMETERED", or provide one NM1 Loop for each meter number
Response: 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

MA	Party for whom Item is Ultimately Intended	
	Meter Addition - use when adding a meter to an existing account	
MQ	Metering Location	
	Meter Level Information Change - use when changing Meter level Information or all Meter Attribute(s) for an existing Meter.	
MR	Medical Insurance Carrier	
	Meter Removal - use when removing a meter from an existing account.	
MX	Juvenile Witness	
	Meter Exchange - use when exchanging a meter.	

	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 (Previous Meter Number)		
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 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.

This segment is only used in conjunction with a meter exchange in order to provide the meter number of the meter being removed. Meter exchanges must be one for one. If the exchange is a two for one, there should be a meter exchange loop and a meter removal loop.

Change Valid:
  From Metering Party to Non-Metering Party

Meter Addition Transactions (NM1~MA): Not Used
Meter Removal Transactions (NM1~MR): Required
Meter Exchange Transactions (NM1~MX): Required
Response: Not Used
REF~46~9938526S

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	ID 2/3
			Code qualifying the Reference Identification		
			46 Old Meter 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		
			Previous Meter Number		

			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
Change Valid:
    From Metering Party to Non-Metering Party

    Meter Multiplier Change: Required
    Meter Addition Transactions (NM1~MA): Required
    Meter Removal Transactions (NM1~MR): Not Used
    Meter Exchange Transactions (NM1~MX): Required
    Meter Attributes Change (NM1~MQ): Required if there is a change to all meter attributes (Meter Multiplier, Number of Dials, Meter Type, and/or Time of Use). If only the Meter Multiplier changes, send only this segment.

All Other Change Request Transactions: Not Used
Response: Not Used
REF~4P~10~KHMON~TU^41
REF~4P~1~K1MON~TU^42

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
51	Totalizer

Segment:		**REF** Reference Identification (Number of Dials)		
Position:		130		
Loop:		NM1 Optional		
Level:		Detail		
Usage:		Optional		
Max Use:		>1		
Purpose:		To specify identifying information		
Syntax Notes:		1 At least one of REF02 or REF03 is required.		
		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
Change Valid:
   From Metering Party to Non-Metering Party

   Meter Dials Change: Required
   Meter Addition Transactions (NM1~MA): Required
   Meter Removal Transactions (NM1~MR): Not Used
   Meter Exchange Transactions (NM1~MX): Required
   Meter Attributes Change (NM1~MQ): Required if there is a change to all meter attributes (Meter Multiplier, Number of Dials, Meter Type, and/or Time of Use). If only the Number of Dials changes, send only this segment.

All Other Change Request Transactions: Not Used
Response: 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

     51   Totalizer

| | | Segment: | **REF** Reference Identification (LF=Loss Factor) |

Segment: **REF** Reference Identification (LF=Loss Factor)

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: Used only if changing the loss factor.

Change Valid: From EDU to CRES only. (Required for First Energy companies, not used by AEP, DP&L, or Duke Energy Ohio)

Change of loss factor:
    Request : Required if it is being changed
    Response: 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)		

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: Used only if changing the customer's load profile.

Change Valid: From EDU to CRES only

.
Change of customer load profile:
    Request :   Required if it is being changed
    Response: 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)		
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.		

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.
Change Valid:
  From Metering Party to Non-Metering Party

  Meter Type Change: Required
  Meter Addition Transactions (NM1~MA): Required
  Meter Removal Transactions (NM1~MR): Not Used
  Meter Exchange Transactions (NM1~MX): Required
  Meter Attributes Change (NM1~MQ): Required if there is a change to all meter attributes (Meter Multiplier, Number of Dials, Meter Type, and/or Time of Use). If only the Meter Type changes, send only this segment.

All Other Change Request Transactions: Not Used
Response: Not Used
REF~MT~KHMON*COGEN
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

	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

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

Type of Consumption
  EA Each
  K1 Kilowatt Demand (kW)
  K2 Kilovolt Amperes Reactive Demand (kVAR)
  K3 Kilovolt Amperes Reactive Hour (kVARH)
  K4 Kilovolt Amperes (kVA)
  K5 Kilovolt Amperes Reactive (kVAR)
  KH Kilowatt Hour (kWh)

T9   Thousand Kilowatt Hours (MW)

Metering Interval Reported for Billing Purposes
nnn   Number of minutes from 001 to 999
ANN   Annual
BIA   Bi-annual
BIM   Bi-monthly
DAY   Daily
MON   Monthly
QTR   Quarterly
TOU   Time of Use

For Example:
KHMON   Kilowatt Hours Per Month
K1015   Kilowatt Demand per 15 minute interval

Other Valid Codes
COMBO   This code is used to indicate that the meter has multiple
             measurements, e.g., one meter that measures both kWh and
             Demand.

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

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

Condition: Required if account has cogeneration

COGEN   This is a net meter used for cogeneration

	Segment:	**REF** Reference Identification (EDU Rate Class)

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: Used only if the EDU changed the account's rate class.

Change valid from EDU to CRES only.

  Request: Required if it is being changed
  Response: 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 Subclass)			
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:	Used only if the EDU changed the account's rate subclass.				

Change valid from EDU to CRES only.

  Request: Required if it is being changed
  Response: 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 Rate Subclass - 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 Rate Subclass		

Segment: # REF Reference Identification (Reason for Change)

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: Required if change is at a meter level
	Response: Not Used
	REF~TD~REFNH

Data Element Summary

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

Code qualifying the Reference Identification

TD   Reason for Change

	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

NM1MA   Meter Addition

NM1MQ   Change Meter Attributes

Change of Meter Attributes: Meter Multiplier (REF~4P), Number of Dials (REF~IX), Meter Type (REF~MT) and Consumption Provided on 867 (REF~TU). If all of these changes, use NM1MQ as the change reason code. If 3 or less change, use the appropriate changes codes (REF4P, REFIX, REFMT, and/or REFTU). The EDU may also use NM1MQ and send all of the attributes even if they are not all changing.

For a change in any meter attributes, FE will send all attributes.
The following will be sent
NM1*MQ…
REF*TD*NM1MQ
REF*MT
REF*4P for each meter type and time of use indicator
REF*IX for each meter type and time of use indicator
REF*TU for each meter type and time of use indicator

NM1MR   Meter Removal

NM1MX   Meter Exchange

REF4P   Change Meter Multiplier

Do not use REF4P if all of the meter attributes (REF4P, REFIX, REFMT, REFTU) change. If all 4 of these are changing, use the NM1MQ change reason code.

REFIX   Change Number of Dials

Do not use REFIX if all of the meter attributes (REF4P, REFIX, REFMT, REFTU) change. If all 4 of these are changing, use the NM1MQ change reason code.

REFLF   Change Loss Factor

REFLO	Change Load Planning Profile	
REFMT	Change Meter Type	
	Do not use REFMT if all of the meter attributes (REF4P, REFIX, REFMT, REFTU) change. If all 4 of these are changing, use the NM1MQ change reason code.	
REFNH	Change Utility Rate Class	
REFPR	Change Utility Rate Subclass	
REFRB	Change CRES Rate Code	
REFSV	Change Service Voltage	
REFTU	Change Time of Use	
	Do not use REFTU if all of the meter attributes (REF4P, REFIX, REFMT, REFTU) change. If all 4 of these are changing, use the NM1MQ change reason code.	
REFTZ	Change Meter Cycle	

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: Used only if changing the rate amount code.

Change Valid: From CRES to EDU only. (Not used by AEP)

Change of rate amount:
    Request :   Required if it is being changed
    Response: Not Used
REF~RB~AB43
REF~RB~AB43~10000

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.

	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

          Rate Code

	Ref. Des.	Data Element	Name		Attributes	
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: Used only if changing the service voltage.

Change Valid: From EDU to CRES only. (Required for First Energy companies, not used by AEP, DP&L, or Duke Energy Ohio)

Change of service voltage:
    Request : Required if it is being changed
    Response: 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.
Change Valid:
  From Metering Party to Non-Metering Party

  Meter Time of Use Change: Required
  Meter Addition Transactions (NM1~MA): Required
  Meter Removal Transactions (NM1~MR): Not Used
  Meter Exchange Transactions (NM1~MX): Required
  Meter Attributes Change (NM1~MQ): Required if there is a change to all meter attributes (Meter Multiplier, Number of Dials, Meter Type, and/or Time of Use). If only the Time of Use changes, send only this segment.

All Other Change Request Transactions: Not Used
Response: 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.

	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

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
51		Totalizer

	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

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: Can only be changed by Meter Reading party. If non-meter reading party requests a change of the cycle, they must use LIN05 = PR.

Change Valid:
  From Metering Party to Non-Metering Party or from Non-Metering Party to Metering Party

Change of Meter Reading Cycle:
  Metering Party to Non-Metering Party Request: Required
  Non-Metering Party to Metering Party Request: Required
  Response: 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: # 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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