Ohio Electric

Implementation Guideline

For

Electronic **D**ata **I**nterchange

TRANSACTION SET

814

Change Request and Response

Ver/Rel 004010

Summary of Changes

Version 1.0.0 May 1, 2001 Version 1.5.0 May 1, 2001 Initial Release

- 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.
- 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.
- 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- Need to add code to notify supplier that MSG has expired for customer or no longer valid.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 2.0.0 December 31, 2001

Version 2.1.0 June 30, 2002

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.
- 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.

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
- 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
- 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.
- 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.

Version 2.6.0 March 24, 2014

Version 2.5.0

February 15, 2013

- Incorporate Change Control 103 Update (Add net meter indicator)
- Incorporate Change Control 105 & 114 (REFLF & REFSV required for AEP & FE)
- Incorporate Change Control 106 (clarify use of REFTD for REFBLT & REFPC changes)
- Version 2.6.1
- Correct missing 'A' (data add flag) in REFTD as originally approved in Change Control 103 Update.

March 9, 2010

Version 2.3.0

Version 2.4.0 February 14, 2012

February 13, 2015

Version 2.6.2 February 11, 2016

- Incorporated Change Control 127 (AEP OH Net Meter Reporting)
- Incorporated Change Control 129 (Add new reason codes to REF7G)
- Incorporated Change Control 130 (REF46 Not Used in NM1MR)

Version 2.6.3 February 8, 2018

- Incorporate Change Control 141 (Administrative change request to remove 'Not used by AEP' under REF02 REFPG (Change Aggregation category and/or Group Aggregation Code) in the EDI 814 Change transaction.)
- Incorporate Change Control 145 (Update the 814C to add a REF*PID segment to be used to update the type of TOU billing program and add the associated change code of REFPID (REF*TD*REFPID))
- Incorporate Change Control 149 (Add new reject codes to the 814C to support AEP's TOU Market Transition)

814 General Request, Response or Confirmation

Functional Group ID= \mathbf{GE}

Introduction:

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

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

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: Required

Response: Required ST~814~000000001

M	Ref. Des. ST01	Data Element 143	Name Transaction Set Identifier Code	Attr M	ributes ID 3/3
			Code uniquely identifying a Transaction Set 814 General Request, Response or Confirma	ıtion	
M	ST02	329	Transaction Set Control Number	\mathbf{M}	AN 4/9
			Identifying control number that must be unique within the tra functional group assigned by the originator for a transaction s		ion 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: Required

Response: Required

BGN~13~199904011956531~19990401 (Request) BGN~11~199904020830531~19990401 (Response)

	Ref.	Data		•			
	Des.	Element	<u>Name</u>		<u>Attri</u>	<u>ibutes</u>	
M	BGN01	353	Transaction	on Set Purpose Code	\mathbf{M}	ID 2/2	
			Code ident	ifying 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				
			-	ransaction identification number assigned by the o. This number must be unique over all time.	riginat	tor of this	
				n Reference numbers will only contain uppercase l 9). Note that punctuation (spaces, dashes, etc.) m			
M	BGN03	373	Date		M	DT 8/8	
			Date expre	ssed as CCYYMMDD			
				ction creation date - the date that the data was proc plication system.	essed	by the	

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.

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

Notes: Required Response: Required

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

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

Segment: N1 Name (SJ - CRES)

Position: 040

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

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

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

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

Semantic Notes:

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

provide a key to the table maintained by the transaction processing party. N105 and N106 further define the type of entity in N101.

Notes: Required

Response: Required

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

	Ref.	Data		,	A 44	
M	<u>Des.</u> N101	Element 98	Name Entity Identifier C	oho.	_	ributes ID 2/3
IVI	11101	70	Code identifying an organizational entity, a physical location, individual			
					, prop	berty of an
			SJ	Service Provider		
				CRES		
M	N102	93	Name		X	AN 1/60
			Free-form name			
			CRES Name			
M	N103	66	Identification Cod	e Qualifier	X	ID 1/2
			Code designating th	Code designating the system/method of code structure used for		
			Code (67)	•		
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with For Suffix	ır Ch	aracter
M	N104	67	Identification Cod		X	AN 2/80
			Code identifying a			
				umber or D-U-N-S + 4 Number		
M	N106	98	Entity Identifier C		O	ID 2/3
112	11200	70	•	n organizational entity, a physical location,	_	
			individual	organizational entity, a physical location,	, prop	ocity of all
			40	Receiver		
			41	Submitter		
			11	Buomitto		

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

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.

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

Notes: Supported by DP&L only

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

	Ref.	Data	NT	·	A 44	•1 4
	Des.	<u>Element</u>	Name	_		ributes
M	N101	98	Entity Identifier C	ode	M	ID 2/3
			Code identifying an individual	organizational entity, a physical location,	prop	erty or an
			RS	Receiving Facility Scheduler		
				Scheduling Coordinator		
M	N102	93	Name		X	AN 1/60
			Free-form name			
			Name of scheduling	coordinator		
M	N103	66	Identification Code	e Qualifier	X	ID 1/2
			Code designating the Code (67)	e system/method of code structure used for	or Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Foundation	ır Ch	aracter
M	N104	67	Identification Code	2	X	AN 2/80
			Code identifying a p	party or other code		
			Scheduling Coordin	ator 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.

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

Notes: Required Required

Accept Response: Required

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

N1~8R~CUSTOMER NAME

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

	Ref.	Data		•		
M	<u>Des.</u> N101	Element 98	Name Entity Identifier Co	ode	Attr M	ributes ID 2/3
141	11101	70	•	organizational entity, a physical location,		
			individual	organizational entity, a physical location,	prop	city of all
			8R	Consumer Service Provider (CSP) Custo	mer	
				Customer		
M	N102	93	Name		X	AN 1/60
			Free-form name			
			Customer name as d	locumented in the sender's application sys	tem.	
C	N103	66	Identification Code	e Qualifier	X	ID 1/2
			Code designating th Code (67)	e system/method of code structure used for	r Ide	Identification
			Store Number			
			Condition: Require			
			92	Assigned by Buyer or Buyer's Agent		
C	N104	67	Identification Code		X	AN 2/80
			Code identifying a p	party or other code		
			Store Number			
			Condition: Required	l when available.		

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

Position: 060

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

Purpose: To specify the location of the named party

Syntax Notes: Semantic Notes: Comments:

Notes: 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

M	Ref. <u>Des.</u> N301	Data Element 166	Name Address Information		ributes 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.		

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

Position: 070

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

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

Semantic Notes:

Comments:

1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

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

Notes: 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

	Ref.	Data						
	Des.	Element	<u>Name</u>	Attr	<u>ibutes</u>			
M	N401	19	City Name	\mathbf{o}	AN 2/30			
			Free-form text for city name					
M	N402	156	State or Province Code	O	ID 2/2			
			Code (Standard State/Province) as defined by appropriate gov	ernn	nent agency			
M	N403	116	Postal Code	0	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 on Note that punctuation (spaces, dashes, etc.) must be excluded.		(0 to 9).			
M	N404	26	Country Code	O	ID 2/3			
			Code identifying the country					
			US United States					
\mathbf{C}	N405	309	Location Qualifier	\mathbf{X}	ID 1/2			
			Code identifying type of location					
			Condition: Will be sent if it is in the EDU's system and is requirposes.	uired	l for tax			
			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 req	uirec	l for tax			
			purposes.					

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 tow Notes:

1. If either PEP03 or PEP04 is present, then the other is required.

Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.

If either PER05 or PER06 is present, then the other is required.
 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

			D	Pata Element Summary		
	Ref.	Data				
	Des.	Element	Name		Attı	<u>ributes</u>
M	PER01	366	Contact 1	Function Code	M	ID 2/2
			Code ider	ntifying the major duty or responsibility of the person	on or	group named
			IC	Information Contact		
M	PER02	93	Name		O	AN 1/60
			Free-form	n name		
M	PER03	365	Commun	ication Number Qualifier	\mathbf{X}	ID 2/2
			Code ider	ntifying the type of communication number		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
M	PER04	364	Commun	ication Number	\mathbf{X}	AN 1/80
			Complete	communications number including country or area	code	when
			applicable			
C	PER05	365		ication Number Qualifier	X	ID 2/2
				ntifying the type of communication number		
				: Required if available		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER06	364	Commun	ication Number	X	AN 1/80
				communications number including country or area	code	when
			applicable			
_				: Required if available		
C	PER07	365		ication Number Qualifier	X	ID 2/2
				ntifying the type of communication number		
				: Required if available		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER08	364	Commun	ication Number	X	AN 1/80
01101467	004010)3/2 6 2			1.4	Γ_{c}	hm.om. 9 2019

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.

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.

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

M	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	<u>Name</u> Entity Identifier (Code	Attı M	ributes ID 2/3
			Code identifying ar individual	n organizational entity, a physical location	, prop	perty or an
			Third Party who wi	ll receive copies of all bills, not notices.		
			2C	Co-Participant		
				Third Party who will receive copies of a notices.	ıll bil	ls, not
M	N102	93	Name	notices.	X	AN 1/60
			Free-form name			
			Name of party that	is to receive a copy of the bill.		

 $\textbf{Segment:} \qquad \textbf{N3} \ \ \textbf{Address Information (2C - Party to Receive Copy of Bill)}$

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

M	Ref. <u>Des.</u> N301	Data Element 166	Name Address Information		ributes 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 partySyntax Notes: 1 If N406 is present, then N405 is required.

Semantic Notes:

Comments:

A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

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

Notes: 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

	Ref.	Data			
	Des.	<u>Element</u>	<u>Name</u>	<u>Attr</u>	<u>ibutes</u>
M	N401	19	City Name	O	AN 2/30
			Free-form text for city name		
M	N402	156	State or Province Code	O	ID 2/2
			Code (Standard State/Province) as defined by appropriate gov	ernn	nent agency
M	N403	116	Postal Code	O	ID 3/15
			Code defining international postal zone code excluding punctic (zip code for United States)	uatio	n and blanks
			Postal codes will only contain uppercase letters (A to Z) and c	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 be found at http://treetops.commerce.net/research/stats/country		
			US United States		

Segment: ${\bf PER}$ 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.

If either PER05 or PER06 is present, then the other is required.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

	Ref.	Data	Di	utu Element Summary		
	Des.	Element	Name		Attı	<u>ributes</u>
M	PER01	366	Contact F	Sunction Code	M	ID 2/2
			Code ident	tifying the major duty or responsibility of the pers	on or	group named
			IC	Information Contact		
M	PER02	93	Name		O	AN 1/60
			Free-form	name		
M	PER03	365	Communi	cation Number Qualifier	\mathbf{X}	ID 2/2
			Code ident	tifying the type of communication number		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
M	PER04	364	Communi	cation Number	\mathbf{X}	AN 1/80
			Complete	communications number including country or are	a code	when
			applicable			
C	PER05	365		cation Number Qualifier	X	ID 2/2
				tifying the type of communication number		
				Required if available		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER06	364		cation Number	X	AN 1/80
			Complete applicable	communications number including country or are	a code	when
				Required if available		
\mathbf{C}	PER07	365	Communi	cation Number Qualifier	X	ID 2/2
			Code ident	tifying the type of communication number		
			Condition:	Required if available		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER08	364	Communi	cation Number	X	AN 1/80
01101.46 (00.4	1010)110 6 2			10	-	1 0 2010

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: 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

M	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	individual	organizational entity, a physical location	M	ributes ID 2/3 perty or an
			BT	Bill-to-Party Customer Billing Name		
M	N102	93	Name		X	AN 1/60
			Free-form name			
			Name associated with	th billing address		

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

Position: 060

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

Purpose: To specify the location of the named party

Syntax Notes: Semantic Notes: Comments:

Notes: Required if it is being changed

Response: Not Used

N3~123 N MAIN ST~MS FLR 13

M	Ref. <u>Des.</u> N301	Data Element 166	Name Address Information		ributes 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 partySyntax Notes: 1 If N406 is present, then N405 is required.

Semantic Notes:

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

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

Notes: Required if it is being changed

Response: Not Used

N4~ANYTOWN~OH~19999~US N4~ANYTOWN~OH~199990001~US N4~MISSISSAUGA~ON~L4W4E4~CA

	Ref.	Data			
	Des.	Element	<u>Name</u>	<u>Attr</u>	<u>ributes</u>
\mathbf{M}	N401	19	City Name	\mathbf{o}	AN 2/30
			Free-form text for city name		
M	N402	156	State or Province Code	O	ID 2/2
			Code (Standard State/Province) as defined by appropriate gov	ernn	nent agency
M	N403	116	Postal Code	O	ID 3/15
			Code defining international postal zone code excluding punct (zip code for United States)	uatio	n and blanks
			Postal codes will only contain uppercase letters (A to Z) and of	digits	s (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 versi be found at http://treetops.commerce.net/research/stats/country		
			US United States		

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: 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

			Dai	ta Element Summary		
	Ref.	Data Element	Nama		A ++,	<u>ributes</u>
M	<u>Des.</u> PER01	366	Name Contact Fu	nction Code		ID 2/2
1,1	12101	200		fying the major duty or responsibility of the person		
			IC	Information Contact	,11 01 5	Sroup numeu
M	PER02	93	Name	mornation contact	O	AN 1/60
1,1	12102	,,	Free-form n	ame	Ü	111 (1,00
M	PER03	365		ation Number Qualifier	X	ID 2/2
1,1	12100	000		fying the type of communication number		12 2,2
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
M	PER04	364		ation Number	X	AN 1/80
1,1	12101			ommunications number including country or area		
			applicable	ommunications number merading country of area	code	Wileii
C	PER05	365		ation Number Qualifier	X	ID 2/2
			Condition:	Required if available		
			Code identi	fying the type of communication number		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER06	364	Communic	ation Number	X	AN 1/80
			Complete co	ommunications number including country or area	. code	when
			Condition:	Required if available		
C	PER07	365	Communic	ation Number Qualifier	X	ID 2/2
			Code identi	fying the type of communication number		
			Condition:	Required if available		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER08	364	Communic	ation Number	\mathbf{X}	AN 1/80
			Complete co	ommunications number including country or area	code	when
OI 101 4C	2 (004010)3/2 (2		* *	24	P.	h 0 2010

Condition: Required if available

 ${\bf Segment:} \qquad {\bf N1} \ \ {\bf Name} \ ({\bf PK-Party} \ to \ {\bf Receive} \ {\bf Notices})$

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

	Ref.	Data				
	Des.	Element	<u>Name</u>		<u>Attr</u>	<u>ributes</u>
M	N101	98	Entity Identifier (Code	M	ID 2/3
			Code identifying an individual	n organizational entity, a physical location,	prop	erty or an
			PK	Party to Receive Copy		
				Third party that is to receive a copy of a bills) to the end use customer.	ll not	ices (not
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

M	Ref. <u>Des.</u> N301	Data Element 166	Name Address Information		ributes AN 1/55
			Address information		
			Third party notice address.		
C	N302	166	Address Information	0	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 tax Notes: 1 If N406 is present, then N405 is required.

Syntax Notes: Semantic Notes:

nantic Notes:
Comments: 1 A co

1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

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

Notes: 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

	Ref.	Data			
	Des.	Element	<u>Name</u>	<u>Attr</u>	<u>ributes</u>
M	N401	19	City Name	O	AN 2/30
			Free-form text for city name		
M	N402	156	State or Province Code	O	ID 2/2
			Code (Standard State/Province) as defined by appropriate gov	ernn	nent agency
			Condition: Required if applicable.		
M	N403	116	Postal Code	O	ID 3/15
			Code defining international postal zone code excluding punctic (zip code for United States)	uatio	n and blanks
			Postal codes will only contain uppercase letters (A to Z) and c	ligits	(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 be found at http://treetops.commerce.net/research/stats/country		
			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.

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

			Da	ta Element Summary		
	Ref.	Data				
	Des.	Element	<u>Name</u>			<u>ributes</u>
M	PER01	366		nction Code	M	ID 2/2
				fying the major duty or responsibility of the person	on or	group named
			IC	Information Contact		
M	PER02	93	Name		O	AN 1/60
			Free-form r	name		
M	PER03	365	Communic	ation Number Qualifier	X	ID 2/2
			Code identi	fying the type of communication number		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
M	PER04	364	Communic	eation Number	\mathbf{X}	AN 1/80
				ommunications number including country or area	code	when
			applicable			
C	PER05	365		ation Number Qualifier	X	ID 2/2
				fying the type of communication number		
				Required if available		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER06	364	Communic	eation Number	X	AN 1/80
				ommunications number including country or area	code	when
			applicable	D : 1:0 !!!!		
~				Required if available		
C	PER07	365		ation Number Qualifier	X	ID 2/2
				fying the type of communication number		
				Required if available		
			EM	Electronic Mail		
			FX	Facsimile		
			TE	Telephone		
C	PER08	364	Communic	eation Number	X	AN 1/80
			Complete c	ommunications 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: Comments:

- LIN01 is the line item identification
- 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

			Data Eleli	ient Summary		
	Ref.	Data				
3.4	Des.	Element 250	Name			ributes
M	LIN01	350	Assigned Identific		0	AN 1/20
			•	racters assigned for differentiation within		
				s is a unique tracking number for each lin		
				umber must be unique over all time. Thi ponse transaction in the same element.	s num	ber must be
			returned on the resp	ponse transaction in the same element.		
			Tracking numbers	will only contain uppercase letters (A to 2	Z) and	digits (0 to
				tuation (spaces, dashes, etc.) must be excl		
M	LIN02	235	Product/Service II	D Qualifier	\mathbf{M}	ID 2/2
				ne type/source of the descriptive number u	ised in	1
			Product/Service ID			
			SH	Service Requested		
M	LIN03	234	Product/Service II	_	M	AN 1/48
			Identifying number	for a product or service		
			EL	Electric Service		
M	LIN04	235	Product/Service I	D Qualifier	X	ID 2/2
			Code identifying the Product/Service ID	ne type/source of the descriptive number up (234)	ised in	ı
			SH	Service Requested		
M	LIN05	234	Product/Service II	D	\mathbf{X}	AN 1/48
			Identifying number	for a product or service		
			CE	Energy Services		
				Indicates this transaction relates to Ene	rgy Se	ervices.
			SI	Summary Interval		
				Request to obtain summary level data f	or an	interval
				customer. This may be sent with an Er		Services
				Enrollment or on a change transaction.		_
				(Not used by Duke Energy Ohio – CR	ES mu	ist send
				REF17 under CE service.)		

 \mathbf{ASI} Action or Status Indicator **Segment:**

Position: 020

> LIN Loop: Optional

Level: Detail Optional Usage:

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:

> Identifies the action to be taken or the status of a requested action for the service **Notes:**

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)

M	Ref. <u>Des.</u> ASI01	Data Element 306	Name Action Code	·	Attı M	ributes ID 1/2
			Code indicating	type of action		
			7	Request		
			U	Reject		
			WQ	Accept		
M	ASI02	875	Maintenance Ty	ype 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.

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

Semantic Notes: Comments:

Notes:

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

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

are part of the SDID number must be present.

Required if customer is in AEP service territory. Max use of one per transaction

REF~Q5~987654

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier	Attr M	ributes 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 specified by the Reference Identification Qualifier	Set o	or as
			AEP assigned Service Delivery Identification 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.

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

Semantic Notes: Comments:

Notes:

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

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

that are part of the account number must be present.

Change Valid:

From CRES to Utility

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

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier Code gyplifying the Reference Identification	Att M	ributes ID 2/3			
			Code qualifying the Reference Identification					
			11 Account Number					
			CRES Account Number					
\mathbf{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: ${f REF}$ Reference Identification (EDU Account Number)

Position: 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify identifying information

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

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

Semantic Notes: Comments:

Notes:

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

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

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

	Ref.	Data							
	Des.	Element	<u>Name</u>		<u>Attr</u>	<u>ributes</u>			
M	REF01	128	Reference Identification Qualifier			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: ${f REF}$ 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.

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

Semantic Notes: 1 R
Comments:

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

Notes:

Ref

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:

Data

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

M	Des. REF01	Element 128	<u>Name</u> Reference Identif	ication Qualifier	Attributes M ID 2/3
			Code qualifying th	ne Reference Identification	
			17	Client Reporting Category	
				Used to convey a request to receive sun information, or detail and associated su information for this interval account.	•
M	REF02	127	Reference Identif	ication	X AN 1/30
				ation as defined for a particular Transaction eference Identification Qualifier Detail	1 Set or as
				Metering party will send both summary for this interval account.	and detail data
			SUMMARY	Summary	
				Metering party will send only summary this interval account.	level data for

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.

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

Semantic Notes: Comments:

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

Notes: Request: Not Used

Accept Response: Required when status information must be conveyed.

Reject Response: Not Used

REF~1P~A13~CHANGE NOT SUPPORTED

Data Element Summary

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identific	ation Qualifier		ibutes ID 2/3
			Code qualifying the	Reference Identification		
			1P	Accessorial Status Code		
				Used on the response when the request additional status information must be pr		
M	REF02	127	Reference Identific	ation	\mathbf{X}	AN 1/30
				on as defined for a particular Transaction erence Identification Qualifier Other	Set or	r as
			ADM	Explanation Required in REF03. When email should be sent to the Ohio Dereguto determine if a new code needs to be explanation.	ılation	list serve
			ABN	Duplicate Request Received		
C	REF03	352	Description		X	AN 1/80
			A free-form descript	tion to clarify the related data elements are	nd thei	r content

requires a text explanation in this element.

Used to further describe the status reason code sent in REF02. Code "A13"

 $\textbf{Segment:} \qquad \textbf{REF} \ \ \textbf{Reference Identification} \ (\textbf{Previous EDU Account Number})$

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.

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

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

Comments: Notes:

nents:

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

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific Code qualifying the	cation Qualifier Reference Identification	Attr M	ributes ID 2/3
			45	Old Account Number		
				Previous EDU Account Number		
M	REF02	127	Reference Identific	cation	X	AN 1/30
				on as defined for a particular Transaction erence Identification Qualifier	Set o	or as
			Previous EDU Acco			

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.

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

Semantic Notes: Comments:

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

Notes:

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

REF~7G~A13~ADDITIONAL REASON TEXT HERE

	D. £	D-4-	Data Elem	ent Summary		
M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identific	eation Auglifiar		ibutes ID 2/3
171	KETUI	120		Reference Identification	171	11) 2/3
			7G	Data Quality Reject Reason		
			, 0	Reject reasons associated with a reject st	tatus	
				notification.		
M	REF02	127	Reference Identific	cation	X	AN 1/30
				on as defined for a particular Transaction rerence Identification Qualifier Account exists but is not active	Set o	r as
				Valid for LIN05 = CE, SI		
			A13	Other		
			A74	Valid for LIN05 = CE, SI Explanation Required in REF03. When email should be sent to the Ohio Deregu to determine if a new code needs to be e CRES Account Invalid or not found	lation	List serve
			A/4	Valid for LIN05 = CE, SI if customer is CRES	serve	d by a
			A76	Utility Account Invalid or Not Found		
				Valid for LIN05 = CE, SI This code may not be used as a rejection correct previous EDU account number v and the EDU changed account numbers within the last 60 days.	vas su	bmitted
			A85	Customer is not the customer of the Req	uesto	r
				Valid for LIN05 = CE, SI		
			ACI	Action Code (ASI01) Invalid		
				Valid for LIN05 = CE, SI		
			ANK	Invalid Source of Information		
			API	Valid for LIN05 = CE, SI Receiver of request does not provide req and/or does not have requested informat Required Information Missing (REF03 I	ion.	
				Valid for LIN05 = CE, SI Explanation Required in REF03	. 1	·· <i>,</i>

ATI	Account Type Invalid
	Valid for LIN05 = CE
	Type of account cannot be enrolled in TOU program
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
IBP	Invalid Billing Program ID
	Valid for LIN05 = CE
	Billing program ID requested is nor valid for AEP's TOU
	program
IMR	Invalid Meter Register
	Valid for LIN05 = CE
	No AMI meter on the account, which is required to enroll in AEP's TOU program
M76	Invalid Meter
14170	Valid for LIN05 = CE, SI
MTI	Maintenance Type Code (ASI02) Invalid
	Valid for LIN05 = CE, SI
NAM	No AMI meter
	Valid for LIN05 = CE
	No AMI meter on the account, which is required to enroll
NITA	in AEP's TOU program
NIA	Not Interval Account Valid for LIN05 = SI
	Requested account for summary interval is not interval
	account.
PPC	Pending Program Change
	Valid for LIN05 = CE
	Pending request not yet effective. Only one request per
DD1	billing period.
PPL	Pending Liability Change
	Valid for LIN05 = CE
SDP	Enrollment request is pending Invalid Service Delivery Point Identifier
SDI	Valid for LIN05 = CE, SI
W05	Requested rate not found or not in effect on the effective
1105	date
	Valid for LIN05 = CE
Description	X AN 1/80

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. 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.

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

Semantic Notes: Comments:

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

Notes: 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

	Ref.	Data			
	Des.	Element	<u>Name</u>		<u>Attributes</u>
\mathbf{M}	REF01	128	Reference Identific	cation Qualifier	$M ID \ 2/3$
			Code qualifying the	Reference Identification	
			BLT	Billing Type	
				Indicates whether the bill is consolidate CRES, or whether each party will rende	•
M	REF02	127	Reference Identific	eation	X AN 1/30
				on as defined for a particular Transaction ference Identification Qualifier Dual Billing	Set or as
				Each party bills the customer for its por	tion
			ESP	CRES Consolidated Billing	
				The CRES bills the customer	
			LDC	EDU Consolidated Billing	
				The EDU bills the customer	

Position: 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify identifying information

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

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

Semantic Notes: Comments:

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

Notes: 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

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identific	cation Qualifier		<u>Attr</u> M	ibutes ID 2/3
			Code qualifying the	Reference Identificati	on		
			BF	Billing Center Identi	fication		
				EDU Billing Cycle. be rendered.	Cycle number when	the	billing will
M	REF02	127	Reference Identific	eation		X	AN 1/30
				on as defined for a par erence Identification (Set o	r as

Billing Cycle Number

Position: 030
Loop: LIN
Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify identifying information

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

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

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

Semantic Notes: Comments:

Notes: Used only if changing the Special Meter Configuration

Change Valid: From EDU to CRES (AEP Ohio & FirstEnergy ONLY)

Request: Required if it is being changed

Response: Not used REF~KY~NETMETER

Data Element Summary

	Ref.	Data				
	Des.	Element	<u>Name</u>		X12	2 Attributes
Must Use	REF01	128	Reference Identificat	ion Qualifier	M	ID 2/3
			Code qualifying the R	eference Identification		
			KY S	Site Specific Procedures, Terms, and C	Condit	tions
			S	Special Meter Configuration		
Must Use	REF02	127	Reference Identificat	ion	\mathbf{X}	AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

NETMETER Net Meter

Segment: **REF** Reference Identification (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.

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

REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

Notes: Used only if changing the Party Calculating Charges

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

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific Code qualifying the	cation Qualifier e Reference Identification	Attr M	ributes ID 2/3
			PC	Production Code		
				Party Calculating Charges.		
M	REF02	127	Reference Identifie	cation	X	AN 1/30
				ion as defined for a particular Transaction ference Identification Qualifier Each Party calculates its portion of the b		or as
			LDC	The EDU calculates charges for each pa	rty	

Position: 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify identifying information

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

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

Semantic Notes: Comments:

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

Notes:

Used only if changing the Program Indicator

Change Valid: From CRES to EDU (AEP Only)

Request: Required if it is being changed

Response: Not Used

Only 1 PID segment may be sent on each 814 Change Request

REF~PID~TOD2 REF~PID~NSC

	Ref.	Data			
	Des.	Element	<u>Name</u>		<u>Attributes</u>
M	REF01	128	Reference Identifie	cation Qualifier	M ID 2/3
			Code qualifying the	Reference Identification	
			PID	Program Identification Number	
				Program Identifier	
M	REF02	127	Reference Identifie	cation	X AN 1/30
			Reference informati	ion as defined for a particular Transaction	Set or as
			specified by the Ref	ference Identification Qualifier	
			TOD2	2 Tier Time-of-Day	
				Used to enroll customer in TOD2	
			NTOD2	Not 2 Tier Time-of-Day	
				Used to remove a customer from TOD2	,
			CPP3	3 Tier plus Critical Peak Pricing	
				Used to enroll customer in CPP3	
			NCPP3	Not 3 Tier plus Critical Peak Pricing	
				Used to remove a customer from CPP3	
			SC	Smart Cooling	
				Used to enroll customer in SC	
			NSC	Not Smart Cooling	
				Used to remove a customer from Smart	Cooling

Segment: REF Reference Identification (Government Aggregation)

Position: 030

Loop: LIN Optional

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify identifying information

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

- If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.
- Semantic Notes: Comments:

Notes:

Dof

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

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

Data Element Summary

	Rei.	Data				
	Des.	Element	<u>Name</u>		<u>Attr</u>	<u>ributes</u>
M	REF01	128	Reference Ident	ification Qualifier	M	ID 2/3
			Code qualifying t	the Reference Identification		
			PG	Product Group		
				Aggregation		
M	REF02	127	Reference Identi	ification	X	AN 1/30
				nation as defined for a particular Transaction Reference Identification Qualifier	ı Set o	or as
			GAG	Government Aggregation (First Energy Energy Ohio and DP&L)	, AEP	, Duke
			AGG	Group (Non-Government) Aggregation only)	(First	Energy use
			GAX	Government Aggregation – (DP&L exc AEP to exclude POLR Rider Charges)	lude F	RSC and
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.

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

030 **Position:**

> LIN Loop: Optional

Level: Detail Usage: Optional

Max Use: 1

Purpose: To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.

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

Semantic Notes: Comments:

REF04 contains data relating to the value cited in REF02.

Notes:

Request: Required if change is at an account (LIN) or header level

Response: Not Used

For AEP, DP&L, and FirstEnergy, to change a billing type, multiple REF~TD segments must be sent (REF~TD~REFBLT and REF~TD~REFPC) along with the associated REF~BLT and REF~PC segments (and REF~TD~REFRB and REF~RB segments in the

NM1 loop if changing to rate ready):

Example of Rate Ready to Bill Ready:

REF~BLT~LDC

REF~PC~ DUAL

REF~TD~REFBLT

REF~TD~REFPC

NM1`MQ~3~~~~32~ALL

Example of Bill Ready to Rate Ready:

REF~BLT~LDC

REF~PC~LDC

REF~TD~REFBLT

REF~TD~REFPC

NM1`MQ~3~~~~32~ALL

REF~TD~REFRB

REF~RB~CRES01

For Duke Energy, OH, only one REF~TD segment will be accepted. A

REF~TD~REFBLT segment should be sent along with the REF~BLT and REF~PC segments (and REF~RB segment in the NM1 loop if changing to rate ready):

Example of Rate Ready to Bill Ready:

REF~PC~LDC

REF~BLT~DUAL

REF~TD~REFBLT

NM1`MQ~3~~~~32~ALL

Example of Bill Ready to Rate Ready:

REF~PC~LDC

REF~BLT~LDC

REF~TD~REFBLT

NM1`MQ~3~~~~32~ALL

REF~RB~CRES01

REF~TD~REFBLT

Data Element Summary

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

Code qualifying the Reference Identification

			TD	Reason for Change	
M	REF02	127	Reference Identific	cation	X AN 1/30
M	REF02		Reference Identific Reference informati	•	irst Energy Only) REF~RB segment Due (First Energy AMT~BD ion k Load Name and/or Address Address and/or Service only) d by AEP)
				only the REF~TD~REFBLT but must in REFBLT and REFPC segments. See abunder REF~TD for additional information	nclude both the bove gray box
			REFPG	Change Aggregation category and/or Gr Code	
			REFQ5	Change AEP's SDID Number(AEP Onl	y)
C	REF03	352	Description		X AN 1/80
			A free-form descrip	tion to clarify the related data elements ar	nd their content
			A	Indicates the data to be added	
				Required if adding the following:Special Meter Configuration (Net Meter	m) DEELV
			D	Indicates the data to be deleted	I) - KEFK I
			_	Required if deleting the following addre	ess types:
				• Party to Receive copy of bills -N12	• •
				 Billing Address –N1BT 	
				Party to Receive copy of notices (NGovernment Aggregation – REFPO	
				 Special Meter Configuration (Net N 	
				Special filetor Configuration (Not I	

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: 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

M	Ref. <u>Des.</u> DTM01	Data Element 374	<u>Name</u> Date/Time Qualifie	er	Attr M	ributes ID 3/3
			Code specifying typ 152	e of date or time, or both date and time Effective Date of Change		
				The date this change will take effect or	has ta	ken effect.
M	DTM02	373	Date Date expressed as C Date expressed as C		X	DT 8/8

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.

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

M	Ref. <u>Des.</u> DTM01	Data Element 374	Date/Time Qua	alifier g type of date or time, or both date and time	Attı M	ributes ID 3/3
			150	Service Period Start The date energy is expected to flow for from the CRES.	this c	customer
M	DTM02	373		as CCYYMMDD as CCYYMMDD	X	DT 8/8

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.

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

	Ref.	Data				
	Des.	Element	<u>Name</u>		<u>Attr</u>	<u>ributes</u>
M	DTM01	374	Date/Time Qualifie	r	M	ID 3/3
			Code specifying type	e of date or time, or both date and time		
			151	Service Period End		
				Estimated date that the service with the	CRE	S will end.
M	DTM02	373	Date		X	DT 8/8
Date expressed as CCYYMMDD						
			Date expressed as C	CYYMMDD		

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

M	Ref. <u>Des.</u> AMT01	Data Element 522	Name Amount Q	ualifier Code	Attr M	ributes ID 1/3
			Code to qua	alify amount Budgeted		
M	AMT02	782	Monetary Amount		M	R 1/8
			Monthly Bu	ıdget 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

M	Ref. <u>Des.</u> AMT01	Data Element 522		alifier Code	Attr M	ibutes ID 1/3
			Code to qual BD	lify amount Balance Due		
M	AMT02	782	Monetary Amount			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. Data

Des. Element Name

Must Use AMT01 522 Amount Qualifier Code

M ID 1/3

Code to qualify amount

KC Obligated

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

(coincident with PJM peak).

Must Use AMT02 782 Monetary Amount M R 1/18

Monetary amount

Peak Load Contribution

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

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

Purpose: To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

Notes: 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

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

 ${\bf NM1}$ Individual or Organizational Name (Meter Level Information) **Segment:**

Position: 080

> Loop: NM1 Optional

Level: Detail Usage: Optional

Max Use: 1

To supply the full name of an individual or organizational entity **Purpose:** 1If either NM108 or NM109 is present, then the other is required. **Syntax Notes:**

If NM111 is present, then NM110 is required.

Semantic Notes: 1 NM102 qualifies NM103.

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

Request: Required if the change is at the meter level- use "ALL", "UNMETERED", or **Notes:**

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.	Data						
M	<u>Des.</u>	Element	Name Entity Identifies C	. J.	Attr M	ributes ID 2/3		
M	NM101	98	Entity Identifier C			12 2/0		
			individual	organizational entity, a physical location	, prop	perty or an		
			MA	Party for whom Item is Ultimately Inten	ıded			
				Meter Addition - use when adding a me		an existing		
				account		8		
			MQ	Metering Location				
				Meter Level Information Change - use v		0 0		
				Meter level Information or all Meter Att	tribut	e(s) for an		
			MR	existing Meter. Medical Insurance Carrier				
			IVIIX	Meter Removal - use when removing a	matar	from on		
				existing account.	meter	Hom an		
			MX	Juvenile Witness				
				Meter Exchange - use when exchanging	a me	eter.		
M	NM102	1065	Entity Type Qualif	ier	M	ID 1/1		
			Code qualifying the	type of entity				
			3	Unknown				
M	NM108	66	Identification Code	e Qualifier	\mathbf{X}	ID 1/2		
			Code designating the Code (67)	e system/method of code structure used for	or Ide	entification		
			32	Assigned by Property Operator				
				Meter Number				
			93	Code assigned by the organization origitransaction set	natin	g the		
				This code used when a Meter Number is in NM109 (i.e., when NM109 contains "UNMETERED").		•		
M	NM109	67	Identification Code		X	AN 2/80		
			Code identifying a p	party or other code				
			Meter Number or,					
				r Unmetered Services or,				
			ALL - for ALL met	ers				

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.

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

Semantic Notes: Comments:

Notes:

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

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):

Meter Exchange Transactions (NM1~MX): Required

Response: Not Used REF~46~9938526S

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier		ributes 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 specified by the Reference Identification Qualifier	Set o	or as
			Previous Meter Number		

Segment: \mathbf{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.

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

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

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

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

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

REF~MT~COMBO

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

REF~4P~1~KH015

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

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	cation Qualifier		ributes ID 2/3
			Code qualifying the	e Reference Identification		
			4P	Affiliation Number		
				Meter Multiplier		
				(Ending Reading - Beginning Reading)	* Me	ter
				Multiplier = Billed Usage		
M	REF02	127	Reference Identific	cation	\mathbf{X}	AN 1/30
				ion as defined for a particular Transaction ference Identification Qualifier	Set o	or as
			Meter Multiplier			
M	REF03	352	Description		X	AN 1/80
			A free-form descrip	otion to clarify the related data elements ar	nd the	eir content
			Meter Type (see RE this element.	EF~MT for valid codes). "COMBO" is no	t a va	alid code for

M	REF04	C040	Reference Io	Reference Identifier					
			specified by	To identify one or more reference numbers or identification numbers specified by the Reference Qualifier Note this is a composite data element. Populate C04001 & C04002					
3.6	C04001	120							
M	C04001	128	Reference Io	dentification Qualifier	M	ID 2/3			
			Code qualify	Code qualifying the Reference Identification					
			TU	Trial Location Code					
				Time of Use					
M	C04002	127	Reference Io	dentification	M	AN 1/30			
			specified by	formation as defined for a particular Trans the Reference Identification Qualifier er codes (as identified by UIG) can be used					
			measured by	the meter, but should not be used to identi	fy tariffed/	calculated			
			measuremen	ts.					
			41	Off Peak					
			42	On Peak					
			43	Intermediate Peak					
			51	Totalizer					

Segment: ${f REF}$ Reference Identification (Number of Dials)

Position: 130

Loop: NM1 Optional

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify identifying information

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

- If either C04003 or C04004 is present, then the other is required. If either C04005 or C04006 is present, then the other is required.
- 1 REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments: Notes:

1 REP04 contains data relating to the value cited in REP02

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

	Ref.	Data	Duta Litin	on Summing			
M	Des. REF01	Element 128	<u>Name</u> Reference Identific	eation Qualifier		ributes ID 2/3	
141	KEFUI	120		•	141	11) 2/3	
			Code qualifying the	Reference Identification			
			IX	Item Number			
				Number of Dials on the Meter displayed	l as X	X.Y. The	
				notation X.Y means that the meter has X	K dial	s to the left	
				of the decimal point, and Y dials to the	right.		
M	REF02	127	Reference Identific	cation	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 RE this element.	EF~MT for valid codes). "COMBO" is no	t a va	alid code for	
\mathbf{M}	REF04	C040	Reference Identifie	er	O		
	To identify one or more reference numbers or identification numbers					ers as	

			specified by th	ne Reference Qualifier			
			Note that this	is a composite data element. Populate C0400	1 and 0	C04002.	
M	C04001	128	Reference Ide	entification Qualifier	M	ID 2/3	
			Code qualifying the Reference Identification				
			TU	Trial Location Code			
				Time of Use			
M	C04002	127	Reference Identification			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)

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

Purpose: To specify identifying information

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

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

If either C04005 or C04006 is present, then the other is required. REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

Notes:

Used only if changing the loss factor.

Change Valid: From EDU to CRES only.

Change of loss factor:

Request: Required if it is being changed by AEP Ohio & FirstEnergy companies;

optional for DP&L and Duke Energy Ohio

Response: Not Used

REF~LF~2

Data Element Summary

Must Use	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier		<u>X12</u> M	Attributes ID 2/3
			Code qualifying	the Reference Identification		
			LF	Load Planning Number		
				Loss Factor		
Must Use	REF02	127	Reference Id	lentification	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.

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

3 If either C04005 or C04006 is present, then the other is requ
 1 REF04 contains data relating to the value cited in REF02.

Semantic Notes: 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

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier	Attributes 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				

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

Position: 130

> NM1 Loop: Optional

Level: Detail Usage: Optional Max Use: >1

Purpose: To specify identifying information

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

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

Semantic Notes: Comments:

Dof

REF04 contains data relating to the value cited in REF02.

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

> 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 REF~MT~COMBO

Data

Data Element Summary

M	Des. REF01	Element 128	Name Reference Identification Qualifier Code qualifying the Reference Identification			ributes ID 2/3
			MT	Meter Ticket Number		
				Meter Type		
M	REF02	127	Reference Identi	fication	X	AN 1/30

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

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.

 \mathbf{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: ${f REF}$ Reference Identification (EDU Rate Class)

Position: 130

Loop: NM1 Optional

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.

If either C04005 or C04006 is present, then the other is required. REF04 contains data relating to the value cited in REF02.

Semantic Notes: 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

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier			ributes ID 2/3
			Code qualify	ing the Reference Identification		
			NH	Rate Card Number		
				EDU Rate Class or Tariff		
M	REF02	127	Reference Io	lentification	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

Position: 130

Loop: NM1 Optional

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify identifying information

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

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

Semantic Notes: Comments:

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

Notes: 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

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference I	dentification Qualifier	Attı M	ributes ID 2/3
			Code qualify	ying the Reference Identification		
			PR	Price Quote Number		
				EDU Rate Subclass - Used to provide f classification of a rate.	urther	
M	REF02	127	Reference I	dentification	X	AN 1/30
	Reference information as defined for a particular Transaction Set of specified by the Reference Identification Qualifier					
			EDU Rate Si	ubclass		

 $\pmb{REF} \ \ \textbf{Reference Identification (Reason for Change)}$ **Segment:**

Position: 130

NM1 Loop: Optional

Level: Detail Optional Usage: Max Use: >1

Purpose: To specify identifying information

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

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

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

Notes:

Request: Required if change is at a meter level

Response: Not Used REF~TD~REFNH

	Data Element Summary							
	Ref.	Data	Nome		A ++	ibutes		
M	<u>Des.</u> REF01	Element 128	<u>Name</u> Reference Identi	fication Qualifier		ID 2/3		
				he Reference Identification				
			TD	Reason for Change				
M	REF02	127	Reference Identi	9	X	AN 1/30		
			specified by the R NM1MA	ation as defined for a particular Transaction Reference Identification Qualifier Meter Addition	Set o	r as		
			NM1MQ	Change Meter Attributes				
				Change of Meter Attributes: Meter Mu (REF~4P), Number of Dials (REF~IX), (REF~MT) and Consumption Provided (REF~TU). If all of these changes, use change reason code. If 3 or less change appropriate changes codes (REF4P, RE and/or REFTU). The EDU may also us send all of the attributes even if they are changing.	on 86 NM11 NM2, use t FIX, F	r Type 7 MQ as the he REFMT, 1MQ and		
				For a change in any meter attributes, FE attributes. The following will be sent NM1*MQ REF*TD*NM1MQ REF*MT REF*4P for each meter type and time of REF*IX for each meter type and time of REF*TU for each meter typ	f use i	ndicator ndicator		
			NM1MR	Meter Removal				
			NM1MX	Meter Exchange				
			REF4P	Change Meter Multiplier				
			REFIX	Do not use REF4P if all of the meter att REFIX, REFMT, REFTU) change. If a changing, use the NM1MQ change reas Change Number of Dials Do not use REFIX if all of the meter att REFIX, REFMT, REFTU) change. If a	all 4 of son coo	these are de. s (REF4P,		

Change Loss Factor

REFLF

changing, use the NM1MQ change reason code.

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

 $\pmb{REF} \ \ \textbf{Reference Identification (CRES \ Rate \ Code)}$ **Segment:**

Position: 130

> NM1 Loop: Optional

Level: Detail Optional Usage: Max Use: >1

Purpose: To specify identifying information

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

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

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

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

	Ref.	Data				
	Des.	Element	<u>Name</u>		Attı	<u>ibutes</u>
M	REF01	128	Reference Ide	entification Qualifier	M	ID 2/3
			Code qualifyin	g the Reference Identification		
			RB	Rate code number		
				CRES Rate Code for the customer.		
M	REF02	127	Reference Ide	entification	X	AN 1/30
				ormation as defined for a particular Transaction te Reference Identification Qualifier	Set o	or as
C	REF03	352	Description		X	AN 1/80
			A free-form de	escription to clarify the related data elements a	nd the	eir content
			Budget Bill Ra	ate Amount for this service (DP&L Only)		
			Condition: Rec	quired if customer is to be on budget billing wi	th the	CRES
			NOTE: This fi	eld will be limited in OH to 10 characters. Sin	ce the	e field will
			contain a mone	etary amount, the field will be left justified with	h an i	mplied
			decimal. For e	example:		
			\$123.45 will b	e provided as 12345		
			\$100.00 will b	e 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.

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

Semantic Notes: Comments:

Dαf

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

Notes: Used only if changing the service voltage.

Change Valid: From EDU to CRES only.

Change of service voltage:

Request: Required if it is being changed by AEP Ohio & FirstEnergy companies;

optional for DP&L and Duke Energy Ohio

Response: Not Used REF~SV~SECONDARY

Data

Data Element Summary

Must Use	Des. REF01	Element 128	Name Reference Identification Qualifier Code qualifying the Reference Identification		<u>X12</u> M	2 Attributes ID 2/3
			SV	Service Charge Number		
				Service Voltage		
Must Use	REF02	127	Reference I	dentification	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: Comments:

Notes:

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

There will be one REF~TU segment for each Time Of Use reading (for each meter type for each meter) that will be provided on the 867.

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

	D.£	D-4-	Duta Erc.	inche Summary	
	Ref.	Data	Nome		A ttwibutos
M	Des.	Element	Name	Section Oveliston	Attributes
M	REF01	128	Reference Identif	•	M ID 2/3
			Code qualifying the	ne Reference Identification	
			TU	Trial Location Code	
				Time of Use: Type of metering information sent on the 867 transaction.	nation that will be
M	REF02	127	Reference Identif	fication	X AN 1/30
				ntion as defined for a particular Transaction eference Identification Qualifier	on Set or as
				les (as identified by UIG) can be used to in neter, but should not be used to identify ta	* *
			measurements.	neter, but should not be used to identify the	in integration
			41	Off Peak	
			42	On Peak	
			43	Intermediate	
			51	Totalizer	
M	REF03	352	Description		X AN 1/80
			A free-form descr	iption to clarify the related data elements	and their content
			Meter Type (see R	REF~MT for valid codes). "COMBO" is r	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.

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

Semantic Notes: 1 REF04 con Comments:

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

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

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier Code qualifying the Reference Identification		Attı M	ributes ID 2/3
			TZ	Total Cycle Number Cycle number when the meter will be re	ead.	
M	REF02	127	Reference Iden		X	AN 1/30
					Set o	or as

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: Required Response: Required

SE~28~000000001

M	Ref. Des. SE01	Data Element 96	Name Number of Included Segments	Attr M	ributes NO 1/10
M	SE02	329	Total number of segments included in a transaction set inclusegments Transaction Set Control Number	ding S M	T and SE AN 4/9
			Identifying control number that must be unique within the trafunctional group assigned by the originator for a transaction		ion set

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in

Case No(s). 18-0338-EL-EDI

Summary: Application EDI Implementation Guideline for Ohio - 814 Change Request and Response electronically filed by Mr. Joseph D Lindsay on behalf of Ohio EDI Working Group