810 Usage/Billing Invoice

Functional Group ID=IN

Introduction:

This transaction will allow Distribution companies to send usage and billing information for electricity to the suppliers who have enrolled customers.

Notes:

ASSUMPTION: One 810 will be created for all of a Suppliers customers who receive electricity from this Distribution company for a given billing cycle. Each customers account for the specific Supplier defined by the N1 within will create looping at the IT1 segment level.

Heading:

Must Use	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	<u>Name</u> Transaction Set Header	Req. <u>Des.</u> M	<u>Max.Use</u> 1	Loop <u>Repeat</u>	Notes and <u>Comments</u>
Must Use	e 020	BIG	Beginning Segment for Invoice	М	1		
Not Used	d 030	NTE	Note/Special Instruction	0	100		
Not Used	d 040	CUR	Currency	0	1		
Not Used	d 050	REF	Reference Identification	0	12		
Not Used	d 055	YNQ	Yes/No Question	0	10		
Not Used	d 060	PER	Administrative Communications Contact	0	3		
			LOOP ID - N1			1	
Must Use	e 070	N1	Name - Distribution Company	0	1		
Not Used	d 080	N2	Additional Name Information	0	2		
Not Used	d 090	N3	Address Information	0	2		
Not Used	d 100	N4	Geographic Location	0	1		
Not Used	d 110	REF	Reference Identification	0	12		
Not Used	d 120	PER	Administrative Communications Contact	0	3		
Not Used	d 125	DMG	Demographic Information	0	1		
			LOOP ID - N1			1	
Must Use	e 070	N1	Name - Supplier	0	1		
Not Used	d 080	N2	Additional Name Information	0	2		
Not Used	d 090	N3	Address Information	0	2		
Not Used	d 100	N4	Geographic Location	0	1		
Not Used	d 110	REF	Reference Identification	0	12		
Not Used	d 120	PER	Administrative Communications Contact	0	3		
Not Used	d 125	DMG	Demographic Information	0	1		
Not Used	d 130	ITD	Terms of Sale/Deferred Terms of Sale	0	>1		
	140	DTM	Date/Time Reference - File Creation Date	0	1		
Not Used	d 150	FOB	F.O.B. Related Instructions	0	1		
Not Used	d 160	PID	Product/Item Description	0	200		
Not Used	d 170	MEA	Measurements	0	40		

Not Used	180	PWK	Paperwork	0	25		
Not Used	190	PKG	Marking, Packaging, Loading	0	25		
Not Used	200	L7	Tariff Reference	0	1		
Not Used	212	BAL	Balance Detail	0	>1		
Not Used	213	INC	Installment Information	0	1		
Not Used	214	PAM	Period Amount	0	>1		
			LOOP ID - LM			10	
Not Used	220	LM	Code Source Information	0	1		
Not Used	230	LQ	Industry Code	Μ	100		
			LOOP ID - N9			1	
Not Used	240	N9	Reference Identification	0	1		
Not Used	250	MSG	Message Text	М	10		
			LOOP ID - V1			>1	
Not Used							
Not Used	260	V1	Vessel Identification	0	1		
Not Used	260 270	V1 R4	Vessel Identification Port or Terminal	0 0	1 >1		
Not Used	270	R4	Port or Terminal	0	>1	>1	
Not Used	270	R4	Port or Terminal Date/Time Reference	0	>1	>1	
Not Used Not Used	270 280	R4 DTM	Port or Terminal Date/Time Reference LOOP ID - FA1	0	>1 >1	>1	

Detail:

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u> LOOP ID - IT1	Req. <u>Des.</u>	<u>Max.Use</u>	Loop <u>Repeat</u> 200000	Notes and <u>Comments</u>
Must Use	010	IT1	Baseline Item Data (Invoice)	0	1		
Not Used	012	CRC	Conditions Indicator	0	1		
Not Used	015	QTY	Quantity	0	5		n l
Not Used	020	CUR	Currency	0	1		
Not Used	030	IT3	Additional Item Data	0	5		
Not Used	040	TXI	Tax Information	0	10		
Not Used	050	CTP	Pricing Information	0	25		
Not Used	055	PAM	Period Amount	0	10		
Must Use	059	MEA	Measurements - Peak/Total kilowatt hour usage	0	1		
	059	MEA	Measurements - Peak kW Demand	Ο	1		
	059	MEA	Measurements - Peak kva Demand	0	1		
	059	MEA	Measurements - Off Peak kilowatt hour usage	0	1		
	059	MEA	Measurements - Off Peak kW Demand	0	1		
	059	MEA	Measurements - Off Peak kva Demand	0	1		
	059	MEA	Measurements - Shoulder kilowatt hour usage	0	1		
	059	MEA	Measurements - Shoulder kW Demand	0	1		
	059	MEA	Measurements - Shoulder kva Demand	Ο	1		
	059	MEA	Measurements - Demand value used for Billing	0	1		
	059	MEA	Measurements - Number of Non-metered units	0	1		
			LOOP ID - PID			1000	

Not Used	060	PID	Product/Item Description	0	1		
Not Used	070	MEA	Measurements	0	10		
Not Used	080	PWK	Paperwork	0	25		
Not Used	090	PKG	Marking, Packaging, Loading	0	25		
Not Used	100	PO4	Item Physical Details	0	1		
Not Used	110	ITD	Terms of Sale/Deferred Terms of Sale	0	2		
Must Use	120	REF	Reference Identification - Supplier account number	0	1		
	120	REF	Reference Identification - Supplier Rate Code	0	1		
	120	REF	Reference Identification - Type of Service Indicator	0	1		
	120	REF	Reference Identification - Service Identifier	0	1		
Must Use	120	REF	Reference Identification - Billing Option	0	1		
Must Use	120	REF	Reference Identification - Activity Code	0	1		
	120	REF	Reference Identification - Supplier Pricing	0	1		
	120	REF	Structure Reference Identification - Primary Metering Indicator	0	1		
	120	REF	Reference Identification - Billing Cycle	0	1		
Not Used	125	YNQ	Yes/No Question	0	10		
Not Used	130	PER	Administrative Communications Contact	0	5		
Not Used	140	SDQ	Destination Quantity	0	500		
Must Use	150	DTM	Date/Time Reference - Current Read Date	0	1		
Must Use	150	DTM	Date/Time Reference - Previous Read Date	0	1		
	150	DTM	Date/Time Reference - Billing Date	0	1		
Not Used	160	CAD	Carrier Detail	0	>1		
Not Used	170	L7	Tariff Reference	0	>1		
Not Used	175	SR	Requested Service Schedule	0	1		
			LOOP ID - SAC			25	
	180	SAC	Allowance, or Charge Information - Current Amount	0	1		
	180	SAC	Allowance, or Charge Information - Current Peak/Total Amount	0	1		
	180	SAC	Allowance, or Charge Information - Current Off-Peak Amount	0	1		
	180	SAC	Allowance, or Charge Information - Current Shoulder Amount	0	1		
	180	SAC	Allowance, or Charge Information - Current Demand Charges	0	1		
	180	SAC	Allowance, or Charge Information - Current Customer Charges	0	1		
	180	SAC	Allowance, or Charge Information - Arrears Interest	0	1		
	180	SAC	Allowance, or Charge Information - Supplier Arrears	0	1		
	180	SAC	Allowance, or Charge Information - Total Amount Due Supplier	0	1		
	190	TXI	Tax Information - Current Sales Tax Amount	0	1		
			LOOP ID - SLN			1000	
Not Used	200	SLN	Subline Item Detail	0	1		
Not Used	205	DTM	Date/Time Reference	0	1		
Not Used	210	REF	Reference Identification	0	>1		
Not Used	220	PID	Product/Item Description	0	1000		
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Not Used	230	SAC	Service, Promotion, Allowance, or Charge Information	0	25	
Not Used	235	TC2	Commodity	0	2	
Not Used	237	TXI	Tax Information	0	10	
			LOOP ID - N1			1
Must Use	240	N1	Name - Customer	0	1	
Not Used	250	N2	Additional Name Information	0	2	
Not Used	260	N3	Address Information	0	2	
Not Used	270	N4	Geographic Location	0	1	
Not Used	280	REF	Reference Identification	0	12	
Not Used	290	PER	Administrative Communications Contact	0	3	
Not Used	295	DMG	Demographic Information	Ο	1	
			LOOP ID - LM			10
Not Used	300	LM	Code Source Information	0	1	
Not Used	310	LQ	Industry Code	М	100	
			LOOP ID - VI			>1
Not Used	320	V1	Vessel Identification	0	1	
Not Used	330	R4	Port or Terminal	0	>1	
Not Used	340	DTM	Date/Time Reference	Ο	>1	
			LOOP ID - FA1			>1
Not Used	350	FA1	Type of Financial Accounting Data	0	1	
Not Used	360	FA2	Accounting Data	М	>1	

Summary:

Must Use	Pos. <u>No.</u> 010	Seg. <u>ID</u> TDS	<u>Name</u> Total Monetary Value Summary	Req. <u>Des.</u> M	<u>Max.Use</u> 1	Loop <u>Repeat</u>	Notes and <u>Comments</u>
Not Used	020	TXI	Tax Information	0	10		
Not Used	030	CAD	Carrier Detail	0	1		
Not Used	035	AMT	Monetary Amount	0	>1		
			LOOP ID - SAC			25	
Not Used	040	SAC	Allowance, or Charge Information - Total Supplier Credits	0	1		
Not Used	040	SAC	Allowance, or Charge Information - Total Supplier Debits	0	1		
Not Used	050	TXI	Tax Information	0	10		
			LOOP ID - ISS			>1	
Not Used	060	ISS	Invoice Shipment Summary	0	1		
Not Used	065	PID	Product/Item Description	0	1		
	070	CTT	Transaction Totals	0	1		n2
Must Use	080	SE	Transaction Set Trailer	М	1		

Transaction Set Notes

- 1. The QTY segment is used to specify a quantity of units which are expected as payments, e.g., trade-ins or returns.
- 2. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

ST Transaction Set Header

Segment:	ST Transaction Set Header
Position:	010
Loop:	
Level:	Heading:
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	1 The transaction set identifier (ST01) 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:

	Ref. Des.	Data <u>Element</u>	Name		ributes
>>	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	М	ID 3/3
			810 Invoice		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
>>	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the t functional group assigned by the originator for a transactio		AN 4/9 ction set

Segment:	BIG Beginning Segment for Invoice
Position:	020
Loop:	
Level:	Heading:
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of an invoice transaction set and transmit identifying numbers
	and dates
Syntax Notes:	
Semantic Notes:	1 BIG01 is the invoice issue date.
	2 BIG03 is the date assigned by the purchaser to purchase order.
	3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI,
	BIG10 is not used.
Comments:	1 BIG07 is used only to further define the type of invoice when needed.

	<u>ributes</u>
Μ	DT 6/6
\mathbf{M}	AN 1/22
0	DT 6/6
0	AN 1/22
•	AN 1/30
-	
order previously	, placed by the
0	AN 1/8
ecific change or	revision to a
0	ID 2/2
0	ID 2/2
r acceptable code	values
*	ID 2/2
Ū	
acceptable code	values.
0	ID 1/2
-	-
acceptable code	values.
0	AN 1/22
0	
ſ	M O by the orderer/p O Order previously ecific change or : O acceptable code O acceptable code O

	Segment:	N1 .	Name - Distribution Company		
	Position:	070	ame - Distribution Company		
	Loop:		Optional (Must Use)		
	Level:	Heading			
	Usage:	U	(Must Use)		
	Max Use:	1			
	Purpose:		fy a party by type of organization, name, and code		
	Syntax Notes:		east one of N102 or N103 is required.		
		2 If eit	ther N103 or N104 is present, then the other is required.		
	Semantic Notes: Comments: Notes:	orga prov	segment, used alone, provides the most efficient method of p nizational identification. To obtain this efficiency the "ID Coc ide a key to the table maintained by the transaction processin 5 and N106 further define the type of entity in N101.	le" (N	104) must
			Data Element Summary		
	Ref.	Data	N	• • •	•••
	<u>Des.</u> N101	Element	Name Extin Identifier Code	<u>Atti</u> M	<u>ributes</u> ID 2/3
>>	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical locatio		
			individual	n, pro	porty of un
			8S Consumer Service Provider		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
	N102	93	Name	Х	AN 1/60
			Free-form name		
			Distribution Company Name		
>>	N103	66	Identification Code Qualifier	X	ID 1/2
	1103	00	Code designating the system/method of code structure used Code (67) 1 DUNS Number		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values
	N104	67	Identification Code	X	AN 2/20
>>	11104	07	Code identifying a party or other code	Λ	AIN 2/20
			Distribution Company DUNS		
X	N105	706	Entity Relationship Code Code describing entity relationship	0	ID 2/2
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	N106	98	Entity Identifier Code	0	ID 2/3
			Code identifying an organizational entity, a physical locatio individual Refer to 003070UIG Data Element Dictionary for acceptable	on, pro	operty or an

Segment:	N1 Name - Supplier
Position:	070
Loop:	N1 Optional (Must Use)
Level:	Heading:
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	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

- I finds 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.

	Ref.	Data				
	<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>ibutes</u>	
>>	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location	M n pro	ID 2/3 perty or an	
			individual	i, pro	perty of un	
			SJ Service Provider			
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.	
	N102	93	Name	Х	AN 1/60	
			Free-form name			
			Energy Supplier Name			
>>	N103	66	Identification Code Qualifier	Х	ID 1/2	
			Code designating the system/method of code structure used Code (67)	for Io	dentification	
			1 DUNS Number			
			Refer to 003070UIG Data Element Dictionary for acceptable code values.			
>> N1	N104	67	Identification Code Code identifying a party or other code	X	AN 2/20	
			Supplier DUNS			
X	N105	706	Entity Relationship Code Code describing entity relationship	0	ID 2/2	
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.	
X	N106	98	Entity Identifier Code	0	ID 2/3	
			Code identifying an organizational entity, a physical location individual	ı, pro	perty or an	
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.	

DTM Date/Time Reference - File Creation Date

Segment:	${f DTM}$ Date/Time Reference - File Creation Date
Position:	140
Loop:	
Level:	Heading:
Usage:	Optional
Max Use:	1
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM06 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM06 or DTM07 is present, then the other is required.
Semantic Notes:	

Comments:

>>	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	Name Date/Time Qualifier Code specifying type of date or time, or both date and time	<u>Attr</u> M	<u>ributes</u> ID 3/3			
			097 Transaction Creation					
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.			
X	DTM02	373	Date Date (YYMMDD)	Х	DT 6/6			
X	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M =	= minu	ites (00-59), S			
			= integer seconds (00-59) and DD = decimal seconds; decim					
X	DTM04	623	expressed as follows: D = tenths (0-9) and DD = hundredths Time Code Code identifying the time. In accordance with International 3 Organization standard 8601, time can be specified by a + or - in hours in relation to Universal Time Coordinate (UTC) time restricted character, + and - are substituted by P and M in th Refer to 003070UIG Data Element Dictionary for acceptable	O Stand and a e; sinc ne cod	ID 2/2 ards an indication e + is a les that follow			
X	DTM05	624	Century The first two characters in the designation of the year (CCYY	0	N0 2/2			
	DTM06	1250	Date Time Period Format Qualifier	X	ID 2/3			
			Code indicating the date format, time format, or date and time	e form	nat			
			D8 Date Expressed as CCYYMMDD					
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.			
>>	DTM07	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates	X and t	AN 1/35 imes			
			File Creation Date					

Segment:	IT1 Baseline Item Data (Invoice)
Position:	010
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To specify the basic and most frequently used line item data for the invoice and related
	transactions
Syntax Notes:	1 If any of IT102 IT103 or IT104 is present, then all are required.
	2 If either IT106 or IT107 is present, then the other is required.
	3 If either IT108 or IT109 is present, then the other is required.
	4 If either IT110 or IT111 is present, then the other is required.
	5 If either IT112 or IT113 is present, then the other is required.
	6 If either IT114 or IT115 is present, then the other is required.
	7 If either IT116 or IT117 is present, then the other is required.
	8 If either IT118 or IT119 is present, then the other is required.
	9 If either IT120 or IT121 is present, then the other is required.
	10 If either IT122 or IT123 is present, then the other is required.
	11 If either IT124 or IT125 is present, then the other is required.
Semantic Notes:	1 IT101 is the purchase order line item identification.
Comments:	1 Element 235/234 combinations should be interpreted to include products and/or
	services. See the Data Dictionary for a complete list of IDs.
	2 IT106 through IT125 provide for ten different product/service IDs for each item. For
	example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

	Ref.	Data	Data Element Summary		
	Des.	Element	<u>Name</u>	Att	<u>ributes</u>
>>	IT101	350	Assigned Identification Alphanumeric characters assigned for differentiation with	O in a tra	AN 1/20 insaction set
			Line item Counter		
X	IT102	358	Quantity Invoiced Number of units invoiced (supplier units)	X	R 1/10
X	IT103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expres which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	IT104	212	Unit Price Price per unit of product, service, commodity, etc.	X	R 1/17
X	IT105	639	Basis of Unit Price Code Code identifying the type of unit price for an item	0	ID 2/2
			Refer to 003070UIG Data Element Dictionary for acceptabl	e code	values.
X	IT106	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003070UIG Data Element Dictionary for acceptable		
X	IT107	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
X	IT108	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003070UIG Data Element Dictionary for acceptable		
X	IT109	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

X	IT110	235	Code identifying the type/source of the descriptive number us	K sed	ID 2/2 in
			Product/Service ID (234) Refer to 003070UIG Data Element Dictionary for acceptable co-	de v	values.
X	IT111	234	Product/Service IDYIdentifying number for a product or serviceY	X	AN 1/48
X	IT112	235			
X	IT113	234		X	AN 1/48
X	IT114	235			
X	IT115	234	Product/Service IDYIdentifying number for a product or serviceY	K	AN 1/48
X	IT116	235			
X	IT117	234	Product/Service IDYIdentifying number for a product or serviceY	K	AN 1/48
X	IT118	235	Product/Service ID QualifierXCode identifying the type/source of the descriptive number usProduct/Service ID (234)Refer to 003070UIG Data Element Dictionary for acceptable co		
X	IT119	234		X	AN 1/48
X	IT120	235			
X	IT121	234		X	AN 1/48
X	IT122	235	Product/Service ID QualifierXCode identifying the type/source of the descriptive number usProduct/Service ID (234)Refer to 003070UIG Data Element Dictionary for acceptable co		
X	IT123	234	Product/Service ID Y Identifying number for a product or service Y	X	AN 1/48
X	IT124	235			
X	IT125	234	Product/Service ID > Identifying number for a product or service >	X	AN 1/48

MEA Measurements - Peak/Total kilowatt hour usage

Segment:	MEA Measurements - Peak/Total kilowatt hour usage
Position:	059
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	3 If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

			Data Excitent Summary		
	Ref.	Data Element	Name	A 44	wihntog
X	<u>Des.</u> MEA01	<u>Element</u> 737	<u>Name</u> Measurement Reference ID Code	<u>Au</u> 0	ributes ID 2/2
Δ	IVIL/AU1	151	Code identifying the broad category to which a measurem	0	
			Refer to 003070UIG Data Element Dictionary for acceptab		
X	MEA02	738	Measurement Qualifier	0	ID 1/3
	1111102	100	Code identifying a specific product or process characteris measurement applies Refer to 003070UIG Data Element Dictionary for acceptab	tic to w	hich a
>>	MEA03	739	Measurement Value	X	R 1/20
~	10112/103	107	The value of the measurement		K 1/20
			Peak/Total kilowatt hour usage		
>>	MEA04	C001	Composite Unit of Measure	Х	
			To identify a composite unit of measure (See Figures App use)	endix f	or examples of
>>	C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2
			Code specifying the units in which a value is being expres	sed, or	manner in
			which a measurement has been taken		
			KH Kilowatt Hour		
			Refer to 003070UIG Data Element Dictionary for acceptab		
X	C00102	1018	Exponent	0	R 1/15
	C	(10)	Power to which a unit is raised	0	D 4/40
X	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R 1/10
X	C00104	355	Unit or Basis for Measurement Code	0	ID 2/2
Δ	C00104	333	Code specifying the units in which a value is being express	•	
			which a measurement has been taken	5 cu , 01	manner m
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
X	C00105	1018	Exponent	0	R 1/15
			Power to which a unit is raised		
X	C00106	649	Multiplier	0	R 1/10
			Value to be used as a multiplier to obtain a new value		
X	C00107	355	Unit or Basis for Measurement Code	0	ID 2/2
			Code specifying the units in which a value is being expres		

			which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable	e code	valı	ues.
Х	C00108	1018	Exponent	0	R	1/15
			Power to which a unit is raised			
X	C00109	649	Multiplier	0	R	1/10
			Value to be used as a multiplier to obtain a new value			
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		mai	
X	C00111	1018	Exponent Power to which a unit is raised	0	R	1/15
X	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R	1/10
X	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		mai	
X	C00114	1018	Exponent	0	R	1/15
			Power to which a unit is raised			
X	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R	1/10
X	MEA05	740	Range Minimum The value specifying the minimum of the measurement rang	X ge	R	1/20
X	MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X ge	R	1/20
>>	MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measur	O remen) 2/2 ue
			42 On-Peak			
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	valı	ues.
X	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric cannot be determined Refer to 003070UIG Data Element Dictionary for acceptable	X meas	II surei) 2/2 ment value
X	MEA09	752	Surface/Layer/Position Code	0) 2/2
48	111111107		Code indicating the product surface, layer or position that	-		
			Refer to 003070UIG Data Element Dictionary for acceptable		-	
X	MEA10	1373	Measurement Method or Device	0) 2/4
			The method or device used to record the measurement	-		-
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	valı	ues.
			• 1			

Segment:	MEA Measurements - Peak kW Demand
Position:	059
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	3 If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

	Des.	<u>Element</u>	Name	Δtt	ributes		
X	<u>Des.</u> MEA01	737	Measurement Reference ID Code	$\frac{\pi u}{0}$	ID 2/2		
			Code identifying the broad category to which a measurement	nt app			
			Refer to 003070UIG Data Element Dictionary for acceptable				
X	MEA02	738	Measurement Qualifier	0	ID 1/3		
			Code identifying a specific product or process characteristi measurement applies Refer to 003070UIG Data Element Dictionary for acceptable				
>>	MEA03	739	Measurement Value	X	R 1/20		
			The value of the measurement				
			Peak kW Demand				
>>	MEA04	C001	Composite Unit of Measure	Х			
			To identify a composite unit of measure (See Figures Appenuse)	ndix f	or examples of		
>>	C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2		
			Code specifying the units in which a value is being expressed, or mann				
			which a measurement has been taken K1 Kilowatt Demand				
				aada	values		
•	C00103	1010	Refer to 003070UIG Data Element Dictionary for acceptable				
Х	C00102	1018	Exponent Power to which a unit is raised	0	R 1/15		
X	C00103	649	Multiplier	0	R 1/10		
			Value to be used as a multiplier to obtain a new value				
Х	C00104	355	Unit or Basis for Measurement Code	0	ID 2/2		
			Code specifying the units in which a value is being express which a measurement has been taken	ed, or	manner in		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values		
X	C00105	1018	Exponent	0	R 1/15		
1	00105	1010	Power to which a unit is raised	U	K 1/15		
Х	C00106	649	Multiplier	0	R 1/10		
			Value to be used as a multiplier to obtain a new value				
Х	C00107	355	Unit or Basis for Measurement Code	0	ID 2/2		
			Code specifying the units in which a value is being express	ed, or	manner in		

Ref.

			which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptabl	e code	valı	ues.
X	C00108	1018	Exponent Power to which a unit is raised	0	R	1/15
X	C00109	649	Multiplier	0	P	1/10
Α	C00109	049	Value to be used as a multiplier to obtain a new value	U	K	1/10
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptabl		mai	
Х	C00111	1018	Exponent Power to which a unit is raised	0	R	1/15
X	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R	1/10
X	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptabl		mai	
X	C00114	1018	Exponent Power to which a unit is raised	0	R	1/15
X	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R	1/10
X	MEA05	740	Range Minimum The value specifying the minimum of the measurement ran	X ge	R	1/20
X	MEA06	741	Range Maximum The value specifying the maximum of the measurement ran	Χ	R	1/20
>>	MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measure	0		D 2/2 ue
			42 On Peak			
			Refer to 003070UIG Data Element Dictionary for acceptabl	e code	valı	ues.
X	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric cannot be determined Refer to 003070UIG Data Element Dictionary for acceptable	X c meas	II surei) 2/2 ment value
X	MEA09	752	Surface/Layer/Position Code	0) 2/2
1	10112/302	134	Code indicating the product surface, layer or position that	-		
			Refer to 003070UIG Data Element Dictionary for acceptabl		-	
X	MEA10	1373	Measurement Method or Device	0) 2/4
	-	-	The method or device used to record the measurement	-		
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	valı	ues.

Segment:	\mathbf{MEA} Measurements - Peak kva Demand
Position:	059
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	3 If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

	Des.	<u>Element</u>	Name	Att	<u>ributes</u>
Х	MEA01	737	Measurement Reference ID Code	0	ID 2/2
			Code identifying the broad category to which a measureme		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	
X	MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristi measurement applies Refer to 003070UIG Data Element Dictionary for acceptable		
>>	MEA03	739	Measurement Value	Х	R 1/20
			The value of the measurement		
			Peak kva Demand		
>>	MEA04	C001	Composite Unit of Measure	Х	
			To identify a composite unit of measure (See Figures Appenuse)		
>>	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken K2 Kilovolt Amperes Reactive Demand	M ed, or	ID 2/2 manner in
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C00102	1018	Exponent Power to which a unit is raised	0	R 1/15
X	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R 1/10
X	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	C00105	1018	Exponent Power to which a unit is raised	0	R 1/15
Х	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R 1/10
X	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express	0 ed, or	ID 2/2 manner in

Ref.

			which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C00108	1018	Exponent Power to which a unit is raised	0	R 1/15
X	C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R 1/10
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	C00111	1018	Exponent Power to which a unit is raised	0	R 1/15
X	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R 1/10
X	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	C00114	1018	Exponent Power to which a unit is raised	0	R 1/15
X	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R 1/10
X	MEA05	740	Range Minimum The value specifying the minimum of the measurement rang	X ge	R 1/20
X	MEA06	741	Range Maximum The value specifying the maximum of the measurement rang	X ge	R 1/20
>>	MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measur	0 emen	ID 2/2 t value
			42 On Peak Refer to 002070LUC Data Element Distingues for accentable	aada	values
X	MEA08	936	Refer to 003070UIG Data Element Dictionary for acceptable Measurement Attribute Code Code used to express an attribute response when a numeric cannot be determined Refer to 003070UIG Data Element Dictionary for acceptable	X meas	ID 2/2 surement value
X	MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that i	0	ID 2/2
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	MEA10	1373	Measurement Method or Device The method or device used to record the measurement Refer to 003070UIG Data Element Dictionary for acceptable	O e code	ID 2/4 values.

Segment:	${f MEA}$ Measurements - Off Peak kilowatt hour usage
Position:	059
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	3 If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

	Kci.	Data				
	Des.	<u>Element</u>	Name	-	<u>ributes</u>	
Х	MEA01	737	Measurement Reference ID Code	0	ID 2/2	
			Code identifying the broad category to which a measureme			
			Refer to 003070UIG Data Element Dictionary for acceptabl	e code	values.	
Х	MEA02	738	Measurement Qualifier	0	ID 1/3	
			Code identifying a specific product or process characterist measurement applies Refer to 003070UIG Data Element Dictionary for acceptabl			
>>	MEA03	739	Measurement Value	X	R 1/20	
			The value of the measurement			
			Off Peak kilowatt hour usage			
>>	MEA04	C001	Composite Unit of Measure	X		
			To identify a composite unit of measure (See Figures Appe	endix f	or examples of	
			use)		or enumpres or	
>>	C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2	
			Code specifying the units in which a value is being expressed, or manner in			
			which a measurement has been taken			
			KH Kilowatt hours			
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.	
Х	C00102	1018	Exponent	0	R 1/15	
			Power to which a unit is raised			
Х	C00103	649	Multiplier	0	R 1/10	
			Value to be used as a multiplier to obtain a new value			
Х	C00104	355	Unit or Basis for Measurement Code	0	ID 2/2	
			Code specifying the units in which a value is being express	ed, or	manner in	
			which a measurement has been taken			
			Refer to 003070UIG Data Element Dictionary for acceptabl	e code	values.	
Х	C00105	1018	Exponent	0	R 1/15	
			Power to which a unit is raised			
Х	C00106	649	Multiplier	0	R 1/10	
			Value to be used as a multiplier to obtain a new value			
Х	C00107	355	Unit or Basis for Measurement Code	0	ID 2/2	
			Code specifying the units in which a value is being express	ed, or	manner in	

Ref.

			which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
X	C00108	1018	Exponent	0	R 1/15
			Power to which a unit is raised		
Х	C00109	649	Multiplier	0	R 1/10
			Value to be used as a multiplier to obtain a new value		
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	C00111	1018	Exponent Power to which a unit is raised	0	R 1/15
X	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R 1/10
X	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
Х	C00114	1018	Exponent	0	R 1/15
			Power to which a unit is raised		
X	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R 1/10
X	MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X ge	R 1/20
X	MEA06	741	Range Maximum The value specifying the maximum of the measurement rang	X ge	R 1/20
>>	MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measur	0	ID 2/2 t value
			41 Off Peak		
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
X	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric cannot be determined Refer to 003070UIG Data Element Dictionary for acceptable	X meas	ID 2/2 surement value
X	MEA09	752	Surface/Layer/Position Code	0	ID 2/2
Л	1 V11 2 <i>F</i> 1U7	134	Code indicating the product surface, layer or position that i	-	
			Refer to 003070UIG Data Element Dictionary for acceptable		-
X	MEA10	1373	Measurement Method or Device	0	ID 2/4
			The method or device used to record the measurement	5	
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.

Segment:	MEA Measurements - Off Peak kW Demand
Position:	059
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	3 If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data	·		
	Des.	<u>Element</u>	Name	Att	<u>ributes</u>
X	MEA01	737	Measurement Reference ID Code	0	ID 2/2
			Code identifying the broad category to which a measurem		
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
X	MEA02	738	Measurement Qualifier	0	ID 1/3
			Code identifying a specific product or process characteris	tic to w	hich a
			measurement applies Refer to 003070UIG Data Element Dictionary for acceptab	la coda	voluos
	MEA03	739	Measurement Value	X	R 1/20
>>	MEAUS	139	The value of the measurement	Λ	K 1/20
			Off Peak kW Demand		
>>	MEA04	C001	Composite Unit of Measure	X	
~	1112104	0001	To identify a composite unit of measure (See Figures App		or avamplas of
			use)		or examples of
>>	C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2
			Code specifying the units in which a value is being expres	sed, or	manner in
			which a measurement has been taken		
			K1 Kilowatt Demand		
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
X	C00102	1018	Exponent	0	R 1/15
			Power to which a unit is raised		
X	C00103	649	Multiplier	0	R 1/10
			Value to be used as a multiplier to obtain a new value		
X	C00104	355	Unit or Basis for Measurement Code	0	ID 2/2
			Code specifying the units in which a value is being express which a measurement has been taken	sed, or	manner in
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values
x	C00105	1018	Exponent	0	R 1/15
Λ	00105	1010	Power to which a unit is raised	U	K 1/13
X	C00106	649	Multiplier	0	R 1/10
11	00100	UT /	Value to be used as a multiplier to obtain a new value	U	IX 1/10
X	C00107	355	Unit or Basis for Measurement Code	0	ID 2/2
	000101	~~~	Code specifying the units in which a value is being expres	•	

			which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
Х	C00108	1018	Exponent	0	R 1/15
	~~~~~		Power to which a unit is raised		
X	C00109	649	Multiplier	0	R 1/10
	~~~~		Value to be used as a multiplier to obtain a new value	~	
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	C00111	1018	Exponent Power to which a unit is raised	0	R 1/15
X	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R 1/10
X	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	C00114	1018	Exponent	0	R 1/15
			Power to which a unit is raised		
X	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R 1/10
X	MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X ge	R 1/20
X	MEA06	741	Range Maximum The value specifying the maximum of the measurement rang	X ge	R 1/20
>>	MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measur	O emen	ID 2/2 t value
			41 Off Peak		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	MEA08	936	Measurement Attribute Code	X	ID 2/2
			Code used to express an attribute response when a numeric cannot be determined Refer to 003070UIG Data Element Dictionary for acceptable		surement value
X	MEA09	752	Surface/Layer/Position Code	0	ID 2/2
			Code indicating the product surface, layer or position that i	s beir	ng described
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
X	MEA10	1373	Measurement Method or Device	0	ID 2/4
			The method or device used to record the measurement		
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.

Segment:	MEA Measurements - Off Peak kva Demand
Position:	059
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA 05 is present, then MEA04 is required.
	3 If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Ref.	Data			
		Name	Δ ##	ributes
			0 <u>Au</u>	ID 2/2
			ent app	
MEA02	738		0	ID 1/3
			tic to w	
		measurement applies		
		Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
MEA03	739	Measurement Value	Х	R 1/20
		Off Peak kva Demand		
MEA04	C001	Composite Unit of Measure	Х	
		To identify a composite unit of measure (See Figures App use)	endix f	or examples of
C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2
			sed, or	manner in
		L.		1
		• •		
C00102	1018	-	0	R 1/15
C00102	(10		0	D 1/10
C00103	649	-	0	R 1/10
C00104	255	-	0	ID 2/2
C00104	322		•	
		which a measurement has been taken	5 cu , 01	manner m
		Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
C00105	1018	Exponent	0	R 1/15
		Power to which a unit is raised		
C00106	649	Multiplier	0	R 1/10
		Value to be used as a multiplier to obtain a new value		
C00107	355	Unit or Basis for Measurement Code	0	ID 2/2
C00107	000	Chirof Dubis for measurement code	0	
	Des. MEA01 MEA02 MEA03 MEA04 C00101 C00102 C00103 C00104 C00105 C00106	Des. Element MEA01 737 MEA02 738 MEA03 739 MEA04 C001 C00101 355 C00102 1018 C00103 649 C00104 355 C00105 1018 C00106 649	Des.ElementName Measurement Reference ID Code Code identifying the broad category to which a measurem Refer to 003070UIG Data Element Dictionary for acceptabMEA02738Measurement Qualifier 	Des. MEA01Element 737NameAtt Measurement Reference ID Code Code identifying the broad category to which a measurement app Refer to 003070UIG Data Element Dictionary for acceptable codeMEA02738Measurement Qualifier O Code identifying a specific product or process characteristic to w measurement applies Refer to 003070UIG Data Element Dictionary for acceptable codeMEA03739Measurement Value The value of the measurementMEA04C001Composite Unit of Measure use)X To identify a composite unit of measure (See Figures Appendix fuse) use)C00101355Unit or Basis for Measurement Code which a measurement has been taken K2 Kilvovlt Amperes Reactive Demand Refer to 003070UIG Data Element Dictionary for acceptable codeC001021018Exponent Power to which a unit is raisedO Code specifying the units in which a value is being expressed, or which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable codeC001021018Exponent Power to which a unit is raisedO Power to which a unit is raisedC00104355Unit or Basis for Measurement Code Value to be used as a multiplier to obtain a new valueO Code specifying the units in which a value is being expressed, or which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable codeC001051018Exponent Report Power to which a unit is raisedO Power to which a unit is raisedC001051018Exponent Report Power to which a unit is raisedO Power to which a unit is raisedC001051018E

			which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable	e code	valu	ies.
X	C00108	1018	Exponent	0		1/15
			Power to which a unit is raised			
Χ	C00109	649	Multiplier	0	R	1/10
			Value to be used as a multiplier to obtain a new value			
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken	O ed, or		2/2 nner in
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	valu	ies.
Х	C00111	1018	Exponent Power to which a unit is raised	0	R	1/15
X	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R	1/10
Χ	C00113	355	Unit or Basis for Measurement Code	0	ID	2/2
			Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable			
X	C00114	1018	Exponent	0	R	1/15
			Power to which a unit is raised			
X	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R	1/10
X	MEA05	740	Range Minimum The value specifying the minimum of the measurement rang	X ge	R	1/20
X	MEA06	741	Range Maximum	Х	R	1/20
			The value specifying the maximum of the measurement ran	ge		
>>	MEA07	935	Measurement Significance Code	0		2/2
			Code used to benchmark, qualify or further define a measur	emen	t valı	ue
			41 Off Peak			
			Refer to 003070UIG Data Element Dictionary for acceptable	e code		
X	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric cannot be determined Refer to 003070UIG Data Element Dictionary for acceptable		uren	
X	MEA09	752	Surface/Layer/Position Code	0	ID	2/2
			Code indicating the product surface, layer or position that	is beir	ng de	escribed
			Refer to 003070UIG Data Element Dictionary for acceptable	code	valu	es.
X	MEA10	1373	Measurement Method or Device The method or device used to record the measurement	0	ID	2/4
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	valu	ies.

Segment:	$\operatorname{\mathbf{MEA}}$ Measurements - Shoulder kilowatt hour usage
Position:	059
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	3 If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Ref.	Data			
Des.	Element	Name	Att	ributes
MEA01	737	Measurement Reference ID Code	0	ID 2/2
		Code identifying the broad category to which a measurem	ent app	lies
		Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
MEA02	738	Measurement Qualifier	0	ID 1/3
			tic to w	hich a
		**		
		• •		
MEA03	739		X	R 1/20
		-		
MEA04	C001	Composite Unit of Measure	Х	
		To identify a composite unit of measure (See Figures App use)	endix f	or examples o
C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2
			sed, or	manner in
		• •		
C00102	1018	-	0	R 1/15
~~~~				
C00103	649	-	0	R 1/10
000404	255	-	~	ID 4/2
C00104	355		•	ID 2/2
			seu, or	
			le code	values.
C00105	1018	• •		R 1/15
		Power to which a unit is raised		
C00106	649	Multiplier	0	R 1/10
		Value to be used as a multiplier to obtain a new value		
		_		
C00107	355	Unit or Basis for Measurement Code	0	ID 2/2
	MEA01 MEA02 MEA03 MEA04	MEA01     737       MEA02     738       MEA03     739       MEA04     C001       C00101     355       C00102     1018       C00103     649       C00104     355       C00105     1018	MEA01737Measurement Reference ID Code Code identifying the broad category to which a measurem Refer to 003070UIG Data Element Dictionary for acceptabMEA02738Measurement Qualifier Code identifying a specific product or process characteris measurement applies Refer to 003070UIG Data Element Dictionary for acceptabMEA03739Measurement Value The value of the measurement Shoulder kilowatt hour usageMEA04C001Composite Unit of Measure To identify a composite unit of measure (See Figures App use)C00101355Unit or Basis for Measurement Code Code specifying the units in which a value is being expres which a measurement has been taken KH 	MEA01737Measurement Reference ID CodeO Code identifying the broad category to which a measurement app Refer to 003070UIG Data Element Dictionary for acceptable codeMEA02738Measurement Qualifier O Code identifying a specific product or process characteristic to w measurement applies Refer to 003070UIG Data Element Dictionary for acceptable codeMEA03739Measurement Value Shoulder kilowatt hour usageX The value of the measurement Shoulder kilowatt hour usageMEA04C001Composite Unit of Measure use)X To identify a composite unit of measure (See Figures Appendix fu use)C00101355Unit or Basis for Measurement Code Which a measurement has been taken KH Kilowatt hours Refer to 003070UIG Data Element Dictionary for acceptable codeC001021018Exponent Power to which a unit is raisedO Code specifying the units in which a value is being expressed, or which a measurement has been taken KH Kilowatt hours Refer to 003070UIG Data Element Dictionary for acceptable codeC00103649Multiplier Nultiplier O (Code specifying the units in which a value is being expressed, or which a unit is raisedO Code specifying the units in which a value is being expressed, or which a user staken Refer to 003070UIG Data Element Dictionary for acceptable codeC00103649Multiplier Nultiplier Refer to 003070UIG Data Element Dictionary for acceptable codeC001051018Exponent Report Refer to 003070UIG Data Element Dictionary for acceptable codeC001051018Exponent Report Report Refer to 003070UIG Data Element Dictionary for acceptable

			which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable	code	valu	ies.
X	C00108	1018	Exponent	0		1/15
			Power to which a unit is raised			
X	C00109	649	Multiplier	0	R	1/10
			Value to be used as a multiplier to obtain a new value			
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expresse which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		mar	
X	C00111	1018	<b>Exponent</b> Power to which a unit is raised	0	R	1/15
X	C00112	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R	1/10
X	C00113	355	Unit or Basis for Measurement Code	0	II	2/2
			Code specifying the units in which a value is being expresse which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable			
X	C00114	1018	Exponent	0		1/15
			Power to which a unit is raised			
X	C00115	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R	1/10
X	MEA05	740	<b>Range Minimum</b> The value specifying the minimum of the measurement rang	e X	R	1/20
X	MEA06	741	Range Maximum	Х	R	1/20
			The value specifying the maximum of the measurement rang	e		
>>	MEA07	935	Measurement Significance Code	0		) 2/2
			Code used to benchmark, qualify or further define a measure	emen	t val	ue
			66 Shoulder	4-	1	
V		026	Refer to 003070UIG Data Element Dictionary for acceptable			
X	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric cannot be determined Refer to 003070UIG Data Element Dictionary for acceptable		urer	
X	MEA09	752	Surface/Layer/Position Code	0	IL	) 2/2
			Code indicating the product surface, layer or position that is	s beir	ng de	escribed
			Refer to 003070UIG Data Element Dictionary for acceptable	code	valu	ies.
X	MEA10	1373	Measurement Method or Device The method or device used to record the measurement	0	II	0 2/4
			Refer to 003070UIG Data Element Dictionary for acceptable	code	valu	ies.

Segment:	MEA Measurements - Shoulder kW Demand
Position:	059
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	<b>3</b> If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

	Des.	<u>Element</u>	Name	Δtt	ributes		
X	<u>Des.</u> MEA01	737	Measurement Reference ID Code	$\frac{\pi u}{0}$	ID 2/2		
			Code identifying the broad category to which a measureme	nt app			
			Refer to 003070UIG Data Element Dictionary for acceptable				
X	MEA02	738	Measurement Qualifier	0	ID 1/3		
			Code identifying a specific product or process characterist measurement applies Refer to 003070UIG Data Element Dictionary for acceptable				
>>	MEA03	739	Measurement Value	X	R 1/20		
	1.111100		The value of the measurement				
			Shoulder kW Demand				
>>	MEA04	C001	Composite Unit of Measure	Х			
			To identify a composite unit of measure (See Figures Appe	ndix f	or examples of		
			use)				
>>	C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2		
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
			K1 Kilowatt Demand				
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values		
X	C00102	1018	Exponent	0	R 1/15		
28	00102	1010	Power to which a unit is raised	U	K 1/15		
X	C00103	649	Multiplier	0	R 1/10		
			Value to be used as a multiplier to obtain a new value				
Х	C00104	355	Unit or Basis for Measurement Code	0	ID 2/2		
			Code specifying the units in which a value is being express	ed, or	manner in		
			which a measurement has been taken	1	1		
	C0010 <b>F</b>	1010	Refer to 003070UIG Data Element Dictionary for acceptable				
X	C00105	1018	<b>Exponent</b> Power to which a unit is raised	0	R 1/15		
X	C00106	649	Multiplier	0	R 1/10		
Λ	00100	U47	Value to be used as a multiplier to obtain a new value	U	K 1/10		
X	C00107	355	Unit or Basis for Measurement Code	0	ID 2/2		
	200107		Code specifying the units in which a value is being express	•			

Ref.

			which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
X	C00108	1018	Exponent	0	R 1/15
			Power to which a unit is raised		
Χ	C00109	649	Multiplier	0	R 1/10
			Value to be used as a multiplier to obtain a new value		
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	C00111	1018	Exponent	0	R 1/15
28	Coolii	1010	Power to which a unit is raised	U	K 1/10
X	C00112	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R 1/10
X	C00113	355	Unit or Basis for Measurement Code	0	ID 2/2
			Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		manner in
X	C00114	1018	Exponent	0	R 1/15
			Power to which a unit is raised		
X	C00115	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R 1/10
X	MEA05	740	<b>Range Minimum</b> The value specifying the minimum of the measurement rang	X ge	R 1/20
X	<b>MEA06</b>	741	Range Maximum	Х	R 1/20
			The value specifying the maximum of the measurement range	ge	
>>	<b>MEA07</b>	935	Measurement Significance Code	0	ID 2/2
			Code used to benchmark, qualify or further define a measur	emen	t value
			66 Shoulder		
			Refer to 003070UIG Data Element Dictionary for acceptable		
X	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric cannot be determined Refer to 003070UIG Data Element Dictionary for acceptable		
X	MEA09	752	Surface/Layer/Position Code	0	ID 2/2
			Code indicating the product surface, layer or position that	is beir	ng described
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
X	MEA10	1373	Measurement Method or Device The method or device used to record the measurement	0	ID 2/4
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.

Segment:	$\mathbf{MEA}$ Measurements - Shoulder kva Demand
Position:	059
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	<b>3</b> If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data	·		
	Des.	Element	Name	Att	ributes
X	MEA01	737	Measurement Reference ID Code	0	ID 2/2
			Code identifying the broad category to which a measurem	ent app	olies
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
X	MEA02	738	Measurement Qualifier	0	ID 1/3
			Code identifying a specific product or process characteris	tic to w	hich a
			measurement applies	1	1
		520	Refer to 003070UIG Data Element Dictionary for acceptab		
>>	MEA03	739	Measurement Value The value of the measurement	Х	R 1/20
			Shoulder kva Demand		
	MEA04	C001	Composite Unit of Measure	X	
>>	MILAU4	C001	_		1
			To identify a composite unit of measure (See Figures App use)	endix i	or examples of
>>	C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2
			Code specifying the units in which a value is being expres	ssed, or	manner in
			which a measurement has been taken		
			K2 Kilovolt Amperes Reactive Demand		
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
X	C00102	1018	Exponent	0	R 1/15
			Power to which a unit is raised		
X	C00103	649	Multiplier	0	R 1/10
	000404		Value to be used as a multiplier to obtain a new value	0	
X	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expres	0	<b>ID 2/2</b>
			which a measurement has been taken	seu, 01	
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
X	C00105	1018	Exponent	0	R 1/15
			Power to which a unit is raised		
X	C00106	649	Multiplier	0	R 1/10
			Value to be used as a multiplier to obtain a new value		
X	C00107	355	Unit or Basis for Measurement Code	0	ID 2/2
			Code specifying the units in which a value is being expres		

			which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C00108	1018	<b>Exponent</b> Power to which a unit is raised	0	R 1/15
X	C00109	649	Multiplier	0	R 1/10
			Value to be used as a multiplier to obtain a new value		
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	C00111	1018	<b>Exponent</b> Power to which a unit is raised	0	R 1/15
X	C00112	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R 1/10
X	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	C00114	1018	Exponent	0	R 1/15
			Power to which a unit is raised		
X	C00115	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R 1/10
X	MEA05	740	<b>Range Minimum</b> The value specifying the minimum of the measurement range	X ge	R 1/20
X	MEA06	741	<b>Range Maximum</b> The value specifying the maximum of the measurement rang	X ge	R 1/20
>>	<b>MEA07</b>	935	Measurement Significance Code Code used to benchmark, qualify or further define a measur	<b>O</b> emen	<b>ID 2/2</b> t value
			66 Shoulder		
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
X	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric cannot be determined Refer to 003070UIG Data Element Dictionary for acceptable		
X	<b>MEA09</b>	752	Surface/Layer/Position Code	0	ID 2/2
		-	Code indicating the product surface, layer or position that i	-	
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
X	MEA10	1373	Measurement Method or Device The method or device used to record the measurement Refer to 003070UIG Data Element Dictionary for acceptable	O e code	<b>ID 2/4</b> values.

Segment:	MEA Measurements - Demand value used for Billing
Position:	059
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
<b>Purpose:</b>	To specify physical measurements or counts, including dimensions, tolerances, variances,
	and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2 If MEA05 is present, then MEA04 is required.
	<b>3</b> If MEA06 is present, then MEA04 is required.
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
<b>Comments:</b>	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any
	measurement where a positive (+) value cannot be assumed, use MEA05 as the
	negative (-) value and MEA06 as the positive (+) value.
Notes:	Measurement can be in either kilowatts or kilovolts

			Data Element Summary		
	Ref. Des.	Data <u>Element</u>	Name	۸ ++	<u>ributes</u>
>>	<u>Des.</u> MEA01	737	Measurement Reference ID Code	0	ID 2/2
	1,111101		Code identifying the broad category to which a measurem	ient app	
			CT Counts		
			Refer to 003070UIG Data Element Dictionary for acceptal	ole code	values
»>	MEA02	738	Measurement Qualifier	0	ID 1/3
	10112/102	750	Code identifying a specific product or process characteris	-	
			measurement applies		
			CX Calculated Value		
			Refer to 003070UIG Data Element Dictionary for acceptal	ole code	values.
<b>&gt;&gt;</b>	MEA03	739	Measurement Value	Х	R 1/20
			The value of the measurement		
			Demand value used for Billing		
X	MEA04	C001	Composite Unit of Measure	Х	
			To identify a composite unit of measure (See Figures Appuse)	pendix f	or examples of
X	C00101	355	Unit or Basis for Measurement Code	Μ	ID 2/2
			Code specifying the units in which a value is being expre	ssed, or	manner in
			which a measurement has been taken K1 Kilowatt Demand		
				1 1	1
7	C00100	1010	Refer to 003070UIG Data Element Dictionary for acceptal		
X	C00102	1018	Exponent Power to which a unit is raised	0	R 1/15
v	C00102	(40		0	D 1/10
X	C00103	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R 1/10
x	C00104	355	Unit or Basis for Measurement Code	0	ID 2/2
7	C00104	555	Code specifying the units in which a value is being expre	•	
			which a measurement has been taken	,	
			Refer to 003070UIG Data Element Dictionary for acceptat	ole code	values.
X	C00105	1018	Exponent	0	R 1/15
			Power to which a unit is raised		
X	C00106	649	Multiplier	0	R 1/10
			Value to be used as a multiplier to obtain a new value		
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X	C00107	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expresse which a measurement has been taken	<b>O</b> ed, or	<b>ID 2/2</b> manner in	
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.	
X	C00108	1018	<b>Exponent</b> Power to which a unit is raised	0	R 1/15	
X	C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	0	R 1/10	
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expresse which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable			
X	C00111	1018	<b>Exponent</b> Power to which a unit is raised	0	R 1/15	
X	C00112	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R 1/10	
X	C00113	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expresse which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable			
X	C00114	1018	<b>Exponent</b> Power to which a unit is raised	0	R 1/15	
X	C00115	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R 1/10	
X	MEA05	740	<b>Range Minimum</b> The value specifying the minimum of the measurement rang	X e	R 1/20	
X	MEA06	741	<b>Range Maximum</b> The value specifying the maximum of the measurement rang	X e	R 1/20	
X	MEA07	935	<b>Measurement Significance Code</b> Code used to benchmark, qualify or further define a measure	0 emen	<b>ID 2/2</b> t value	
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.	
X	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric cannot be determined Refer to 003070UIG Data Element Dictionary for acceptable			ıe
X	MEA09	752	Surface/Layer/Position Code	0	ID 2/2	
			Code indicating the product surface, layer or position that is			
v		1050	Refer to 003070UIG Data Element Dictionary for acceptable			
X	MEA10	1373	Measurement Method or Device The method or device used to record the measurement	0	ID 2/4	
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.	
			J			

Segment:	MEA Measurements - Number of Non-metered units						
Position:	059						
Loop:	IT1 Optional (Must Use)						
Level:	Detail:						
Usage:	Optional						
Max Use:	1						
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances,						
	and weights (See Figures Appendix for example of use of C001)						
Syntax Notes:	1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.						
	2 If MEA05 is present, then MEA04 is required.						
	<b>3</b> If MEA06 is present, then MEA04 is required.						
	4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.						
	5 Only one of MEA08 or MEA03 may be present.						
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.						
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.						

			Data Element Summary		
	Ref. Des.	Data <u>Element</u>	Name	A 11	ributes
>>	<u>Des.</u> MEA01	737	Measurement Reference ID Code	0	ID 2/2
			Code identifying the broad category to which a measurem	•	
			CT Counts	11	
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values
<b>&gt;&gt;</b>	MEA02	738	Measurement Qualifier	0	ID 1/3
-		100	Code identifying a specific product or process characteris		
			measurement applies		
			AU Number of Units Projected		
			Refer to 003070UIG Data Element Dictionary for acceptabl	e code	values.
<b>&gt;</b>	MEA03	739	Measurement Value	Х	R 1/20
			The value of the measurement		
			Number of Non-metered units		
K	MEA04	C001	Composite Unit of Measure	Х	
			To identify a composite unit of measure (See Figures App	endix f	or examples of
			use)		
K	C00101	355	Unit or Basis for Measurement Code	M	ID 2/2
			Code specifying the units in which a value is being express which a measurement has been taken	sea, or	manner in
			1N Count		
			Refer to 003070UIG Data Element Dictionary for acceptabl	e code	values.
K	C00102	1018	Exponent	0	R 1/15
-	000102	1010	Power to which a unit is raised	Ũ	
X	C00103	649	Multiplier	0	R 1/10
			Value to be used as a multiplier to obtain a new value		
K	C00104	355	Unit or Basis for Measurement Code	0	ID 2/2
			Code specifying the units in which a value is being express	sed, or	manner in
			which a measurement has been taken		
			Refer to 003070UIG Data Element Dictionary for acceptab		
X	C00105	1018	Exponent	0	R 1/15
-		(10)	Power to which a unit is raised	0	D 4/40
K	C00106	649	Multiplier	0	R 1/10
			Value to be used as a multiplier to obtain a new value		

X	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed which a measurement has been taken	0 d, or	ID 2/2 manner in
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C00108	1018	<b>Exponent</b> Power to which a unit is raised	0	R 1/15
X	C00109	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R 1/10
X	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	C00111	1018	<b>Exponent</b> Power to which a unit is raised	0	R 1/15
X	C00112	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R 1/10
X	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable of		
X	C00114	1018	<b>Exponent</b> Power to which a unit is raised	0	R 1/15
X	C00115	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	0	R 1/10
X	MEA05	740	<b>Range Minimum</b> The value specifying the minimum of the measurement range	X	R 1/20
X	MEA06	741	<b>Range Maximum</b> The value specifying the maximum of the measurement range	X	R 1/20
X	MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measure	O men	ID 2/2 t value
			Pafer to 002070LUC Data Element Distingent for accentable	aada	
X	MEA08	936	Refer to 003070UIG Data Element Dictionary for acceptable on Measurement Attribute Code	X	<b>ID 2/2</b>
Δ	MILAUO	930	Code used to express an attribute response when a numeric r cannot be determined Refer to 003070UIG Data Element Dictionary for acceptable of	neas	urement value
X	<b>MEA09</b>	752	Surface/Layer/Position Code	0	ID 2/2
			Code indicating the product surface, layer or position that is		
			Refer to 003070UIG Data Element Dictionary for acceptable of		
X	MEA10	1373	Measurement Method or Device The method or device used to record the measurement	0	ID 2/4
			Refer to 003070UIG Data Element Dictionary for acceptable of	code	values
			Refer to 005070010 Data Element Dictionary for acceptable (	couc	values.

## **REF** Reference Identification - Supplier account number

Segment:	${f REF}$ Reference Identification - Supplier account number						
Position:	120						
Loop:	IT1 Optional (Must Use)						
Level:	Detail:						
Usage:	Optional (Must Use)						
Max Use:	1						
Purpose:	To specify identifying information						
Syntax Notes:	1 At least one of REF02 or REF03 is required.						
	2 If either C04003 or C04004 is present, then the other is required.						
	<b>3</b> If either C04005 or C04006 is present, then the other is required.						
Semantic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.						
<b>Comments:</b>							

	Ref.	Data	·		
	Des.	<u>Element</u>	Name		<u>ributes</u>
>>	REF01	128	Reference Identification Qualifier	Μ	ID 2/3
			Code qualifying the Reference Identification		
			5B Supplemental Account number		
			Refer to 003070UIG Data Element Dictionary for acceptable of		
	REF02	127	Reference Identification	Х	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	1 Set	or as specified
			Supplier Customer Account Number		
X	REF03	352	Description	X	AN 1/80
		~ ~ ~ ~	A free-form description to clarify the related data elements a		eir content
X	REF04	C040	Reference Identifier	0	
			To identify one or more reference numbers or identification specified by the Reference Qualifier		
X	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	Μ	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04002	127	Reference Identification	$\mathbf{M}$	AN 1/30
			Reference information as defined for a particular Transaction	1 Set	or as specified
<b>N</b> 7	C0 4002	100	by the Reference Identification Qualifier	<b>N</b> 7	<b>D</b> 2/2
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04004	127	Reference Identification	Х	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	1 Set	or as specified
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	1 Set	or as specified

## **REF** Reference Identification - Supplier Rate Code

Segment:	${f REF}$ Reference Identification - Supplier Rate Code
Position:	120
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	<b>3</b> If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	

	Ref.	Data	·			
>>	<u>Des.</u> REF01	<u>Element</u> 128	<u>Name</u> Reference Identification Qualifier	<u>Attı</u> M	<u>ributes</u> ID 2/3	
			Code qualifying the Reference Identification			
			RB Rate Code Number			
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.	
	REF02	127	Reference Identification	Х	AN 1/30	
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier Supplier Rate Code	set	or as specified	
V	DEE02	252	•••	v	A NI 1 /00	
X	REF03	352	<b>Description</b> A free-form description to clarify the related data elements a	X nd th	AN 1/80 eir content	
X	REF04	C040	Reference Identifier	0		
		0010	To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier			
X	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	Μ	ID 2/3	
			Refer to 003070UIG Data Element Dictionary for acceptable code values.			
X	C04002	127	Reference Identification	Μ	AN 1/30	
			Reference information as defined for a particular Transaction	set	or as specified	
X	C04003	128	by the Reference Identification Qualifier Reference Identification Qualifier	x	ID 2/3	
	001000	120	Code qualifying the Reference Identification			
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.	
X	C04004	127	Reference Identification	X	AN 1/30	
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	set	or as specified	
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X	ID 2/3	
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.	
X	C04006	127	Reference Identification	Х	AN 1/30	
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	set	or as specified	

## **REF** Reference Identification - Type of Service Indicator

Segment:	<b>REF</b> Reference Identification - Type of Service Indicator					
Position:	120					
Loop:	IT1 Optional (Must Use)					
Level:	Detail:					
Usage:	Optional					
Max Use:	1					
Purpose:	To specify identifying information					
Syntax Notes:	1 At least one of REF02 or REF03 is required.					
	2 If either C04003 or C04004 is present, then the other is required.					
	<b>3</b> 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.					
<b>Comments:</b>						

Notes:

	Ref.	Data	N .	• • •	•1
>>	<u>Des.</u> REF01	<u>Element</u> 128	<u>Name</u> Reference Identification Qualifier	<u>Attr</u> M	<u>ibutes</u> ID 2/3
~~		120	Code qualifying the Reference Identification	1.1	
			PRT Product Type		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
	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		-
			Type of Service Indicator		
			C = Combined Service D = Metered Service Demand & kWH		
			E = Metered Service behavior a kwh		
			H = Controlled Hot Water		
			L = Lighting Service		
			N = Non-Metered Service		
			T = Metered Service TOU A = Apply to All Services		
X	REF03	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements an	nd the	eir content
Χ	REF04	C040	Reference Identifier	0	
			To identify one or more reference numbers or identification n	numb	ers as
	C0 400 4	100	specified by the Reference Qualifier		ID 4/2
X	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	Μ	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable of	ode	values
X	C04002	127	Reference Identification	M	AN 1/30
Λ	C04002	147	Reference information as defined for a particular Transaction		
			by the Reference Identification Qualifier		I
Χ	C04003	128	<b>Reference Identification Qualifier</b>	Х	ID 2/3
			Code qualifying the Reference Identification		
			Refer to 003070UIG Data Element Dictionary for acceptable of		
X	C04004	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	Set	or as specified
X	C04005	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
			Refer to 003070UIG Data Element Dictionary for acceptable of	ode v	values.
X	C04006	127	Reference Identification	X	AN 1/30

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

## **REF** Reference Identification - Service Identifier

Segment:	${f REF}$ Reference Identification - Service Identifier
Position:	120
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	<b>3</b> If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	

	Ref.	Data			
>>	<u>Des.</u> REF01	<u>Element</u> 128	<u>Name</u> Reference Identification Qualifier Code qualifying the Reference Identification	<u>Attı</u> M	ributes ID 2/3
			MG Meter Number		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
	REF02	127	Reference Identification	Х	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier Service Identifier	1 Set	or as specified
Χ	REF03	352	Description	Х	AN 1/80
			A free-form description to clarify the related data elements a	nd th	eir content
X	REF04	C040	Reference Identifier	0	
X	C04001	128	To identify one or more reference numbers or identification specified by the Reference Qualifier <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	numb M	Ders as ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04002	127	Reference Identification	Μ	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	1 Set	or as specified
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction	X n Set	AN 1/30 or as specified
X	C04005	128	by the Reference Identification Qualifier <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
Х	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	1 Set	or as specified

### **REF** Reference Identification - Billing Option

Segment:	<b>REF</b> Reference Identification - Billing Option
Position:	120
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	<b>3</b> If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	

	Ref.	Data	·		
	Des.	Element	Name	-	ributes
>>	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	Μ	ID 2/3
			BLT Billing Type		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
>>	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction by the Reference Identification Qualifier	X n Set	AN 1/30 or as specified
			Billing option C = Complete P = Passthrough		
X	REF03	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements a		eir content
Х	REF04	C040	Reference Identifier	0	
			To identify one or more reference numbers or identification	numb	ers as
X	C04001	128	specified by the Reference Qualifier Reference Identification Qualifier	М	ID 2/3
	001001	120	Code qualifying the Reference Identification		<b>III                                  </b>
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04002	127	Reference Identification	Μ	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	n Set	or as specified
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04004	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	n Set	or as specified
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	n Set	or as specified

# **REF** Reference Identification - Activity Code

Segment:	<b>REF</b> Reference Identification - Activity Code
Position:	120
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	<b>3</b> If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	

>>	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identification Qualifier	<u>Attı</u> M	<u>ributes</u> ID 2/3
			Code qualifying the Reference Identification		
			BE Business Activity		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
>>	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction by the Reference Identification Qualifier	X 1 Set	AN 1/30 or as specified
			Activity Code 0 = Normal On cycle Bill 1 = Cancellation 2 = Manual Bill 3 = Final Bill 4 = Off-cycle Bill 5 = No Bill 6 = Estimated On-cycle Bill 7 = Estimated Off-cycle Bill 8 = Late Read/Late Booked		
x	REF03	352	Description	X	AN 1/80
28		002	A free-form description to clarify the related data elements a		
X	REF04	C040	Reference Identifier	0	
			To identify one or more reference numbers or identification	numb	ers as
X	C04001	128	specified by the Reference Qualifier <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	М	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
Х	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction	M Set	AN 1/30
X	C04003	128	by the Reference Identification Qualifier <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction	X 1 Set	<b>AN 1/30</b> or as specified
X	C04005	128	by the Reference Identification Qualifier <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable of	ode	values.

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#### **Reference Identification**

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

## **REF** Reference Identification - Supplier Pricing Structure

Segment:	${f REF}$ Reference Identification - Supplier Pricing Structure
<b>Position:</b>	120
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
<b>Purpose:</b>	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	

	Ref.	Data			
>>	<u>Des.</u> REF01	<u>Element</u> 128	<u>Name</u> Reference Identification Qualifier Code qualifying the Reference Identification	<u>Attı</u> M	ributes ID 2/3
			PR Price Quote Number		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
	REF02	127	Reference Identification	Х	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier Supplier Pricing Structure Number	1 Set	or as specified
X	REF03	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements a	nd th	eir content
X	REF04	C040	Reference Identifier	0	
X	C04001	128	To identify one or more reference numbers or identification respectively by the Reference Qualifier <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	numb M	ers as ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04002	127	Reference Identification	М	AN 1/30
X	C04003	128	Reference information as defined for a particular Transaction by the Reference Identification Qualifier <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	n Set - X	or as specified ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values
X	C04004	127	Reference Identification	X	AN 1/30
28	01001	127	Reference information as defined for a particular Transaction by the Reference Identification Qualifier		
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	Х	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04006	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction by the Reference Identification Qualifier	X n Set	AN 1/30 or as specified

# **REF** Reference Identification - Primary Metering Indicator

Segment:	<b>REF</b> Reference Identification - Primary Metering Indicator
Position:	120
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	<b>3</b> If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	

	Ref.	Data			
	Des.	<u>Element</u>	Name	Att	<u>ributes</u>
>>	REF01	128	Reference Identification Qualifier	Μ	ID 2/3
			Code qualifying the Reference Identification		
			QY Service Performed Code		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
	REF02	127	Reference Identification	Х	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	n Set	or as specified
			Primary Metering Indicator		
			Y = Primary Metering		
			N = No Primary Metering		
X	REF03	352	Description	X	AN 1/80
Δ	KET 05	552	A free-form description to clarify the related data elements a		
X	REF04	C040	Reference Identifier	0	
			To identify one or more reference numbers or identification	numb	ers as
			specified by the Reference Qualifier		
Х	C04001	128	Reference Identification Qualifier	$\mathbf{M}$	ID 2/3
			Code qualifying the Reference Identification		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
Х	C04002	127	Reference Identification	$\mathbf{M}$	AN 1/30
			Reference information as defined for a particular Transaction	ı Set	or as specified
V	C04002	100	by the Reference Identification Qualifier	v	ID 2/2
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	Х	ID 2/3
				aada	
<b>*</b> 7	CO 400 4		Refer to 003070UIG Data Element Dictionary for acceptable		
X	C04004	127	<b>Reference Identification</b>	X	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	I Set	or as specified
X	C04005	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
Χ	C04006	127	Reference Identification	Х	AN 1/30
			Reference information as defined for a particular Transaction	n Set	or as specified
			by the Reference Identification Qualifier		

## **REF** Reference Identification - Billing Cycle

Segment:	<b>REF</b> Reference Identification - Billing Cycle
Position:	120
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	<b>3</b> If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	

	Ref.	Data	·		
	Des.	Element	Name		ributes
>>	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	Μ	ID 2/3
			BF Billing Center Identification		
			Refer to 003070UIG Data Element Dictionary for acceptable c	ode v	values.
	REF02	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transactior by the Reference Identification Qualifier Billing Cycle Number	ı Set	or as specified
X	REF03	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements a	nd th	eir content
X	REF04	C040	Reference Identifier	0	
X	C04001	128	To identify one or more reference numbers or identification is specified by the Reference Qualifier <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	numb M	ers as ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04002	127	Reference Identification	Μ	AN 1/30
			Reference information as defined for a particular Transaction	1 Set	or as specified
X	C04003	128	by the Reference Identification Qualifier <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transactior	X Set	AN 1/30 or as specified
X	C04005	128	by the Reference Identification Qualifier <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X	ID 2/3
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction by the Reference Identification Qualifier	I Set	or as specified

### **DTM** Date/Time Reference - Current Read Date

Segment:	${f DTM}$ Date/Time Reference - Current Read Date
<b>Position:</b>	150
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional (Must Use)
Max Use:	1
<b>Purpose:</b>	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM06 is required.
	2 If DTM04 is present, then DTM03 is required.
	<b>3</b> If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes: **Comments:** 

>>	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	Name Date/Time Qualifier Code specifying type of date or time, or both date and time	<u>Attr</u> M	<u>ributes</u> ID 3/3
			723 Current Month Ending		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	DTM02	373	Date Date (YYMMDD)	X	DT 6/6
Χ	DTM03	337	Time	X	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = = integer seconds (00-59) and DD = decimal seconds; decim expressed as follows: D = tenths (0-9) and DD = hundredths	= minu al sec	ites (00-59), S onds are
X	DTM04	623	<b>Time Code</b> Code identifying the time. In accordance with International 3 Organization standard 8601, time can be specified by a + or - in hours in relation to Universal Time Coordinate (UTC) time restricted character, + and - are substituted by P and M in th Refer to 003070UIG Data Element Dictionary for acceptable	and a ; sinc e cod	an indication e + is a es that follow
X	DTM05	624	<b>Century</b> The first two characters in the designation of the year (CCYY	<b>0</b> ()	N0 2/2
>>	DTM06	1250	<b>Date Time Period Format Qualifier</b> Code indicating the date format, time format, or date and time	X e form	<b>ID 2/3</b> nat
			D8 Date Expressed as CCYYMMDD		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
>>	<b>DTM07</b>	1251	<b>Date Time Period</b> Expression of a date, a time, or range of dates, times or dates	X and t	<b>AN 1/35</b> imes
			Current read date		

### **DTM** Date/Time Reference - Previous Read Date

Segment:	$\mathbf{DTM}$ Date/Time Reference - Previous Read Date
<b>Position:</b>	150
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional (Must Use)
Max Use:	1
<b>Purpose:</b>	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM06 is required.
	<b>2</b> If DTM04 is present, then DTM03 is required.
	<b>3</b> If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes: **Comments:** 

>>	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	Name Date/Time Qualifier Code specifying type of date or time, or both date and time	<u>Attr</u> M	<u>ributes</u> ID 3/3
			724 Previous Month Ending		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	DTM02	373	Date Date (YYMMDD)	Х	DT 6/6
X	DTM03	337	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = = integer seconds (00-59) and DD = decimal seconds; decim expressed as follows: D = tenths (0-9) and DD = hundredths	= minu al sec	ites (00-59), S onds are
X	DTM04	623	<b>Time Code</b> Code identifying the time. In accordance with International S Organization standard 8601, time can be specified by a + or - in hours in relation to Universal Time Coordinate (UTC) time restricted character, + and - are substituted by P and M in th Refer to 003070UIG Data Element Dictionary for acceptable	O Stand and a e; sinc e cod	<b>ID 2/2</b> ards an indication e + is a es that follow
X	DTM05	624	<b>Century</b> The first two characters in the designation of the year (CCYY	<b>0</b> ()	N0 2/2
>>	DTM06	1250	<b>Date Time Period Format Qualifier</b> Code indicating the date format, time format, or date and time	X e form	<b>ID 2/3</b> nat
			D8 Date Expressed as CCYYMMDD		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
>>	DTM07	1251	<b>Date Time Period</b> Expression of a date, a time, or range of dates, times or dates	X and t	<b>AN 1/35</b> imes
			Previous read date		

### **DTM** Date/Time Reference - Billing Date

Segment:	${f DTM}$ Date/Time Reference - Billing Date
<b>Position:</b>	150
Loop:	IT1 Optional (Must Use)
Level:	Detail:
Usage:	Optional
Max Use:	1
<b>Purpose:</b>	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM06 is required.
	2 If DTM04 is present, then DTM03 is required.
	<b>3</b> If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes: **Comments:** 

>>	Ref. <u>Des.</u> DTM01	Data <u>Element</u> 374	Name Date/Time Qualifier Code specifying type of date or time, or both date and time	<u>Attı</u> M	ributes ID 3/3
			964 Bill		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	DTM02	373	Date Date (YYMMDD)	Х	DT 6/6
Χ	<b>DTM03</b>	337	Time	Х	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = = integer seconds (00-59) and DD = decimal seconds; decim expressed as follows: D = tenths (0-9) and DD = hundredths	= minu al sec	utes (00-59), S conds are
X	DTM04	623	<b>Time Code</b> Code identifying the time. In accordance with International Organization standard 8601, time can be specified by a + or - in hours in relation to Universal Time Coordinate (UTC) time restricted character, + and - are substituted by P and M in th Refer to 003070UIG Data Element Dictionary for acceptable	and a ; sinc e cod	an indication ce + is a les that follow
X	DTM05	624	<b>Century</b> The first two characters in the designation of the year (CCYY	0	N0 2/2
>>	DTM06	1250	<b>Date Time Period Format Qualifier</b> Code indicating the date format, time format, or date and time	X e forn	<b>ID 2/3</b> nat
			D8 Date expressed as CCYYMMDD		
			Refer to 003070UIG Data Element Dictionary for acceptable of	ode v	values.
>>	DTM07	1251	<b>Date Time Period</b> Expression of a date, a time, or range of dates, times or dates	X and t	AN 1/35 times
			Billing Date		

Segment:	SAC	<ul> <li>Allowance, or Charge Information</li> </ul>	Current Amount
Position:		Anowance, or Charge Information	- Current Amount
	180 SAC	Ontional	
Loop:	SAC	Optional	
Level:	Detail:		
Usage:	Optional		
Max Use:	1		
Purpose:	-		wance, or charge; to specify the amount or
		ge for the service, promotion, allowance	
Syntax Notes:		east one of SAC02 or SAC03 is required	
		ther SAC03 or SAC04 is present, then the	
		ther SAC06 or SAC07 is present, then the	
		ther SAC09 or SAC10 is present, then the	-
		AC11 is present, then SAC10 is required	
		AC13 is present, then at least one of SA	-
		AC14 is present, then SAC13 is required	
		AC16 is present, then SAC15 is required	
Semantic Notes:		AC01 is "A" or "C", then at least one of	
	2 SAC	205 is the total amount for the service, p	romotion, allowance, or charge.
	If SA	AC05 is present with SAC07 or SAC08,	then SAC05 takes precedence.
	<b>3</b> SAC	208 is the allowance or charge rate per u	ınit.
	4 SAC	210 and SAC11 is the quantity basis wh	en the allowance or charge quantity is
	diffe	erent from the purchase order or invoice	e quantity.
	SAC	10 and SAC11 used together indicate a	quantity range, which could be a dollar
	amo	unt, that is applicable to service, promo	tion, allowance, or charge.
	5 SAC	13 is used in conjunction with SAC02 of	or SAC04 to provide a specific reference
		ber as identified by the code used.	<b>1 1</b>
		-	to identify an option when there is more
		one option of the promotion.	· 1
		216 is used to identify the language beir	ng used in SAC15.
<b>Comments:</b>			e service, promotion, allowance, or charge.
		ldition, it may be used in conjunction to	
		ome business applications, it is necessa	
		**	ance, charge, or promotion was based on
		-	only referred to a "Dollar Basis Amount". It
		presented in the SAC segment in SAC1	-
	SAC		o using the quantier DO Donais in
Notes:		v value of any and all of the following t	hat are applicable to this account
notes.		Current Peak Amount	hat are applicable to this account.
		Current Off-Peak Amount	
		Current Shoulder Amount	
		Current Demand Charges	
		Current Customer Charges	
		Current Sales Tax Amount	
	SAC IOF	Current Sales Tax Amount	
		Data Element Summary	
Ref.	Data	Dum Element Summaly	
Des.	<u>Element</u>	Name	<u>Attributes</u>
<u>Des.</u> SAC01	248	Allowance or Charge Indicator	M ID 1/1
DACU1	<b>4</b> 70	Code subjection director on all	

>> SAC01 248		248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service sp	M peci	<b>ID 1/1</b> ified
		C Charge			
			Refer to 003070UIG Data Element Dictionary for acceptable co	ode	values.
X	SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b> Code identifying the service, promotion, allowance, or charge	X	ID 4/4
			Refer to 003070UIG Data Element Dictionary for acceptable co	ode	values.
	SAC03	559	Agency Qualifier Code	Х	ID 2/2
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			Code identifying the agency assigning the code values		
			EU Electric Utilities		
			Refer to 003070UIG Data Element Dictionary for accepta	ble code	values.
>>	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X	AN 1/10
			Agency maintained code identifying the service, promoti	on, allo	wance, or
			charge		
			ENC Energy Charges		
>>	SAC05	610	Amount	0	N2 1/15
			Monetary amount		
			Current Amount		
			Total of Current PEAK, OFF-PEAK, SHOULDER, DEMA	ND, CU	STOMER,
	a . a		SALES TAX Charges.		
Х	SAC06	378	Allowance/Charge Percent Qualifier	X	ID 1/1
			Code indicating on what basis allowance or charge perce		
			Refer to 003070UIG Data Element Dictionary for accepta		
Х	SAC07	332	Percent	Х	R 1/6
			Percent expressed as a percent	_	
Х	SAC08	118	Rate	0	R 1/9
			Rate expressed in the standard monetary denomination f specified	or the cu	irrency
X	SAC09	355	Unit or Basis for Measurement Code	X	ID 2/2
	512003		Code specifying the units in which a value is being expre		
			which a measurement has been taken		
			Refer to 003070UIG Data Element Dictionary for accepta	ble code	values.
X	SAC10	380	Quantity	Х	R 1/15
			Numeric value of quantity		
Χ	SAC11	380	Quantity	0	R 1/15
			Numeric value of quantity		
X	SAC12	331	Allowance or Charge Method of Handling Code	0	ID 2/2
			Code indicating method of handling for an allowance or		
			Refer to 003070UIG Data Element Dictionary for acceptal	ole code	values.
Χ	SAC13	127	Reference Identification	Х	AN 1/30
			Reference information as defined for a particular Transac	ction Set	or as specified
\$7	G A G1 A		by the Reference Identification Qualifier	0	A NI 1 /00
X	SAC14	770	<b>Option Number</b> A unique number identifying available promotion or allo	0	AN 1/20
			more than one is offered	wance 0	puons when
X	SAC15	352	Description	Х	AN 1/80
		-	A free-form description to clarify the related data element		
Х	SAC16	819	Language Code	0	ID 2/3
			Code designating the language used in text, from a stand	lard cod	e list
			maintained by the International Standards Organization (I	ISO 639)	)

<b>G</b>	SAC		
Segment:	DAU	Allowance, or Charge Information - Current P	'eak/1 otal Amount
Position:	180		
Loop:		Optional	
Level: Usage:	Detail: Optional		
Max Use:	1		
Purpose:	-	st or identify a service, promotion, allowance, or cl	harge: to specify the amount or
i uiposei	-	ge for the service, promotion, allowance, or charge	inarge, to speenly the amount of
Syntax Notes:		east one of SAC02 or SAC03 is required.	
·		her SAC03 or SAC04 is present, then the other is re	equired.
	3 If eit	ther SAC06 or SAC07 is present, then the other is re-	equired.
		ther SAC09 or SAC10 is present, then the other is re-	equired.
		AC11 is present, then SAC10 is required.	
		AC13 is present, then at least one of SAC02 or SAC	04 is required.
		AC14 is present, then SAC13 is required.	
Semantic Notes:		AC16 is present, then SAC15 is required. AC01 is "A" or "C", then at least one of SAC05, SA	$C07$ or $S \land C08$ is required
Semantic Notes.		CO5 is the total amount for the service, promotion, al	-
		AC05 is present with SAC07 or SAC08, then SAC05	•
		208 is the allowance or charge rate per unit.	
		C10 and SAC11 is the quantity basis when the allow	vance or charge quantity is
	diffe	erent from the purchase order or invoice quantity.	
		C10 and SAC11 used together indicate a quantity ra	-
		unt, that is applicable to service, promotion, allowa	-
		C13 is used in conjunction with SAC02 or SAC04 to	provide a specific reference
		ber as identified by the code used. 214 is used in conjunction with SAC13 to identify a	n option when there is more
		one option of the promotion.	in option when there is more
		C16 is used to identify the language being used in S.	AC15.
<b>Comments:</b>		CO4 may be used to uniquely identify the service, pr	
		ldition, it may be used in conjunction to further the	-
		ome business applications, it is necessary to advise	• •
		al dollar amount that a particular allowance, charge	-
		duce ambiguity. This amount is commonly referred	
	is rej	presented in the SAC segment in SAC10 using the	qualifier "DO" - Dollars in
Notes:		the current amount for non time of use accounts.	
100005	Reflects	the current amount for non-time of use accounts.	
		Data Element Summary	
Ref.	Data	·	
Des.	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
SAC01	248	Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for	the service specified
		N No Allowance or Charge	
		Refer to 003070UIG Data Element Dictionary for	acceptable code values.
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X ID 4/4
		Code identifying the service, promotion, allowand	ce, or charge
		Refer to 003070UIG Data Element Dictionary for	acceptable code values.
SAC03	559	Agency Qualifier Code	X ID 2/2
511005	00)	Code identifying the agency assigning the code v	
			values
		EU Electric Utilities	
		Refer to 003070UIG Data Element Dictionary for a	•
SAC04	1301	Agency Service, Promotion, Allowance, or Charg	-
		Agency maintained code identifying the service, j	promotion, allowance, or
		charge	
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>>

Х

>>

			CPA Current Peak Amount		
>>	SAC05	610	Amount	0	N2 1/15
			Monetary amount		
			Current Peak/Total Amount		
Х	SAC06	378	Allowance/Charge Percent Qualifier	Х	ID 1/1
			Code indicating on what basis allowance or charge percer		
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
Х	SAC07	332	Percent	Х	R 1/6
			Percent expressed as a percent		
X	SAC08	118	Rate	0	R 1/9
			Rate expressed in the standard monetary denomination fo	r the cu	irrency
Х	SAC09	355	specified Unit or Basis for Measurement Code	x	ID 2/2
Λ	SACO	555	Code specifying the units in which a value is being expres		
			which a measurement has been taken	,	
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
Χ	SAC10	380	Quantity	Х	R 1/15
			Numeric value of quantity		
Χ	SAC11	380	Quantity	0	R 1/15
			Numeric value of quantity		
X	SAC12	331	Allowance or Charge Method of Handling Code	0	ID 2/2
			Code indicating method of handling for an allowance or cl	-	
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
X	SAC13	127	Reference Identification	Χ	AN 1/30
			Reference information as defined for a particular Transact	ion Set	or as specified
X	SAC14	770	by the Reference Identification Qualifier <b>Option Number</b>	0	AN 1/20
1	5/1014	110	A unique number identifying available promotion or allow	~	
			more than one is offered		I
X	SAC15	352	Description	Х	AN 1/80
			A free-form description to clarify the related data element	s and th	neir content
X	SAC16	819	Language Code	0	ID 2/3
			Code designating the language used in text, from a standa		
			maintained by the International Standards Organization (IS	SU 639)	)

Segment:	$\operatorname{SAC}$ Allowance, or Charge Information - Current Off-Peak Amount
Position:	180
Loop:	SAC Optional
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or
-	percentage for the service, promotion, allowance, or charge
Syntax Notes:	1 At least one of SAC02 or SAC03 is required.
·	2 If either SAC03 or SAC04 is present, then the other is required.
	3 If either SAC06 or SAC07 is present, then the other is required.
	4 If either SAC09 or SAC10 is present, then the other is required.
	5 If SAC11 is present, then SAC10 is required.
	6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
	7 If SAC14 is present, then SAC13 is required.
	8 If SAC16 is present, then SAC15 is required.
Semantic Notes:	1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
	2 SAC05 is the total amount for the service, promotion, allowance, or charge.
	If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
	<b>3</b> SAC08 is the allowance or charge rate per unit.
	4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is
	different from the purchase order or invoice quantity.
	SAC10 and SAC11 used together indicate a quantity range, which could be a dollar
	amount, that is applicable to service, promotion, allowance, or charge.
	5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference
	number as identified by the code used.
	<b>6</b> SAC14 is used in conjunction with SAC13 to identify an option when there is more
	than one option of the promotion.
	7 SAC16 is used to identify the language being used in SAC15.
<b>Comments:</b>	<b>1</b> SAC04 may be used to uniquely identify the service, promotion, allowance, or charge.
	In addition, it may be used in conjunction to further the code in SAC02.
	2 In some business applications, it is necessary to advise the trading partner of the
	actual dollar amount that a particular allowance, charge, or promotion was based on
	to reduce ambiguity. This amount is commonly referred to a "Dollar Basis Amount". It
	is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in
	SAC09.

	Ref. <u>Des.</u>	Data <u>Element</u>	Name	Att	<u>ributes</u>
>>	SAC01	248	Allowance or Charge Indicator	Μ	ID 1/1
			Code which indicates an allowance or charge for the service	speci	ified
			N No Allowance or Charge		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
Х	SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b> Code identifying the service, promotion, allowance, or charge	X ge	ID 4/4
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
	SAC03	559	Agency Qualifier Code	Х	ID 2/2
			Code identifying the agency assigning the code values		
			EU Electric Utilities		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
>>	SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b> Agency maintained code identifying the service, promotion, charge	<b>X</b> allow	AN 1/10 wance, or
NH8	(003070UIG)		52		March 13 199

			COA Current Off-peak Amount		
>>	SAC05	610	Amount	0	N2 1/15
			Monetary amount		
			Current Off Peak Amount		
X	SAC06	378	Allowance/Charge Percent Qualifier	X	ID 1/1
			Code indicating on what basis allowance or charge percen		
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
X	SAC07	332	Percent	Х	R 1/6
			Percent expressed as a percent		
Х	SAC08	118	Rate	0	R 1/9
			Rate expressed in the standard monetary denomination for specified	the cu	irrency
X	SAC09	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code specifying the units in which a value is being expres	sed, or	manner in
			which a measurement has been taken		
			Refer to 003070UIG Data Element Dictionary for acceptabl		
X	SAC10	380	Quantity	Х	R 1/15
			Numeric value of quantity	_	
X	SAC11	380	Quantity	0	R 1/15
v	SAC12	331	Numeric value of quantity	0	ID 2/2
X	SACIZ	551	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or ch	<b>O</b>	ID 2/2
			Refer to 003070UIG Data Element Dictionary for acceptabl	-	values
Х	SAC13	127	Reference Identification	X	AN 1/30
21	5/1015	127	Reference information as defined for a particular Transaction		
			by the Reference Identification Qualifier		1
X	SAC14	770	Option Number	0	AN 1/20
			A unique number identifying available promotion or allow	ance o	ptions when
X	SAC15	352	more than one is offered <b>Description</b>	x	AN 1/80
<b>4</b>	SACIS	554	A free-form description to clarify the related data elements		
X	SAC16	819	Language Code	0	ID 2/3
	~	~ 1/	Code designating the language used in text, from a standa	-	
			maintained by the International Standards Organization (IS		

Segment:	${\operatorname{SAC}}$ Allowance, or Charge Information - Current Shoulder Amount
Position:	180
Loop:	SAC Optional
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or
-	percentage for the service, promotion, allowance, or charge
Syntax Notes:	1 At least one of SAC02 or SAC03 is required.
·	2 If either SAC03 or SAC04 is present, then the other is required.
	3 If either SAC06 or SAC07 is present, then the other is required.
	4 If either SAC09 or SAC10 is present, then the other is required.
	5 If SAC11 is present, then SAC10 is required.
	6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
	7 If SAC14 is present, then SAC13 is required.
	8 If SAC16 is present, then SAC15 is required.
Semantic Notes:	1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
	2 SAC05 is the total amount for the service, promotion, allowance, or charge.
	If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
	<b>3</b> SAC08 is the allowance or charge rate per unit.
	4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is
	different from the purchase order or invoice quantity.
	SAC10 and SAC11 used together indicate a quantity range, which could be a dollar
	amount, that is applicable to service, promotion, allowance, or charge.
	5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference
	number as identified by the code used.
	6 SAC14 is used in conjunction with SAC13 to identify an option when there is more
	than one option of the promotion.
	7 SAC16 is used to identify the language being used in SAC15.
Comments:	<b>1</b> SAC04 may be used to uniquely identify the service, promotion, allowance, or charge.
	In addition, it may be used in conjunction to further the code in SAC02.
	2 In some business applications, it is necessary to advise the trading partner of the
	actual dollar amount that a particular allowance, charge, or promotion was based on
	to reduce ambiguity. This amount is commonly referred to a "Dollar Basis Amount". It
	is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in
	SAC09.

			Data Element Summary		
	Ref. <u>Des.</u>	Data <u>Element</u>	Name		<u>ributes</u>
>>	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service	M spec	<b>ID 1/1</b> ified
			N No Allowance or Charge		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b> Code identifying the service, promotion, allowance, or charg	X ge	ID 4/4
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
	SAC03	559	Agency Qualifier Code	Х	ID 2/2
			Code identifying the agency assigning the code values		
			EU Electric Utilities		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
>>	SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b> Agency maintained code identifying the service, promotion, charge	X allov	<b>AN 1/10</b> wance, or
	000000000		~ .		1 10 1000

			CSA Current Shoulder Amount		
>>	SAC05	610	Amount	0	N2 1/15
			Monetary amount		
			Current Shoulder Amount		
Χ	SAC06	378	Allowance/Charge Percent Qualifier	Х	ID 1/1
			Code indicating on what basis allowance or charge percen		
			Refer to 003070UIG Data Element Dictionary for acceptabl	e code	values.
X	SAC07	332	Percent	Х	R 1/6
			Percent expressed as a percent		
Х	SAC08	118	Rate	0	R 1/9
			Rate expressed in the standard monetary denomination for specified	the cu	irrency
X	SAC09	355	Unit or Basis for Measurement Code	х	ID 2/2
			Code specifying the units in which a value is being express	sed, or	manner in
			which a measurement has been taken		
			Refer to 003070UIG Data Element Dictionary for acceptabl	e code	values.
Χ	SAC10	380	Quantity	Х	R 1/15
			Numeric value of quantity		
Χ	SAC11	380	Quantity	0	R 1/15
*7		221	Numeric value of quantity	0	TD 4/2
X	SAC12	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or ch	0	ID 2/2
			Refer to 003070UIG Data Element Dictionary for acceptabl	-	values
V	SAC13	127	Reference Identification	X	AN 1/30
X	SACIS	127	Reference information as defined for a particular Transacti		
			by the Reference Identification Qualifier	on bet	or as specified
X	SAC14	770	Option Number	0	AN 1/20
			A unique number identifying available promotion or allow	ance o	ptions when
<b>N</b> 7			more than one is offered	<b>X</b> 7	
X	SAC15	352	<b>Description</b> A free-form description to clarify the related data elements	X	AN 1/80
V	CA C1(	010			
X	SAC16	819	Language Code Code designating the language used in text, from a standar	0 d code	ID 2/3
			maintained by the International Standards Organization (IS		
					,

Segment:	${\operatorname{SAC}}$ Allowance, or Charge Information - Current Demand Charges
Position:	180
Loop:	SAC Optional
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or
	percentage for the service, promotion, allowance, or charge
Syntax Notes:	1 At least one of SAC02 or SAC03 is required.
	2 If either SAC03 or SAC04 is present, then the other is required.
	<b>3</b> If either SAC06 or SAC07 is present, then the other is required.
	4 If either SAC09 or SAC10 is present, then the other is required.
	5 If SAC11 is present, then SAC10 is required.
	6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
	7 If SAC14 is present, then SAC13 is required.
	8 If SAC16 is present, then SAC15 is required.
Semantic Notes:	1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
	2 SAC05 is the total amount for the service, promotion, allowance, or charge.
	If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
	<b>3</b> SAC08 is the allowance or charge rate per unit.
	4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is
	different from the purchase order or invoice quantity.
	SAC10 and SAC11 used together indicate a quantity range, which could be a dollar
	amount, that is applicable to service, promotion, allowance, or charge.
	5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference
	number as identified by the code used. $(12  to identify an entire when there is more than its sector with SAC12 to identify an entire when there is more than the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector with SAC12 to identify an entire when the sector when the sector$
	<b>6</b> SAC14 is used in conjunction with SAC13 to identify an option when there is more
	than one option of the promotion.
<b>Comments:</b>	<ul> <li>7 SAC16 is used to identify the language being used in SAC15.</li> <li>1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge.</li> </ul>
Comments:	1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
	2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on
	to reduce ambiguity. This amount is commonly referred to a "Dollar Basis Amount". It
	is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in
	SAC09.
	0.1007.

			Data Element Summary		
>>	Ref. <u>Des.</u> SAC01	Data <u>Element</u> 248	Name Allowance or Charge Indicator Code which indicates an allowance or charge for the service	Μ	ributes ID 1/1 ified
			N No Allowance or Charge		
			Refer to 003070UIG Data Element Dictionary for acceptable of	code	values.
X	SAC02	1300	Service, Promotion, Allowance, or Charge Code Code identifying the service, promotion, allowance, or charg	X je	ID 4/4
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
	SAC03	559	Agency Qualifier Code	Х	ID 2/2
			Code identifying the agency assigning the code values		
			EU Electric Utilities		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
>>	SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b> Agency maintained code identifying the service, promotion, charge	<b>X</b> allow	<b>AN 1/10</b> vance, or
NU1010 (			57		M 1 12 1000

			DMD Current Demand Charges		
>>	SAC05	610	Amount	0	N2 1/15
			Monetary amount		
			Current Demand Charges		
Χ	SAC06	378	Allowance/Charge Percent Qualifier	Х	ID 1/1
			Code indicating on what basis allowance or charge percen		
			Refer to 003070UIG Data Element Dictionary for acceptabl	e code	values.
X	SAC07	332	Percent	Х	R 1/6
			Percent expressed as a percent		
Х	SAC08	118	Rate	0	R 1/9
			Rate expressed in the standard monetary denomination for specified	the cu	irrency
X	SAC09	355	Unit or Basis for Measurement Code	х	ID 2/2
			Code specifying the units in which a value is being express	sed, or	manner in
			which a measurement has been taken		
			Refer to 003070UIG Data Element Dictionary for acceptabl	e code	values.
Χ	SAC10	380	Quantity	Х	R 1/15
			Numeric value of quantity		
Χ	SAC11	380	Quantity	0	R 1/15
*7		221	Numeric value of quantity	0	TD 4/2
X	SAC12	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or ch	0	ID 2/2
			Refer to 003070UIG Data Element Dictionary for acceptabl	-	values
X	SAC13	127	Reference Identification	X	AN 1/30
Λ	SACIS	127	Reference information as defined for a particular Transacti		
			by the Reference Identification Qualifier	on bet	or as specified
X	SAC14	770	Option Number	0	AN 1/20
			A unique number identifying available promotion or allow	ance o	ptions when
<b>N</b> 7			more than one is offered		
X	SAC15	352	<b>Description</b> A free-form description to clarify the related data elements	X and th	AN 1/80
v	SA C14	010			
X	SAC16	819	<b>Language Code</b> Code designating the language used in text, from a standar	<b>O</b> rd code	ID 2/3
			maintained by the International Standards Organization (IS		
					*

Segment:	${ m SAC}$ Allowance, or Charge Information - Current Customer Charges
Position: 13	80
	AC Optional
-	etail:
	ptional
Max Use: 1	A
Purpose: T	o request or identify a service, promotion, allowance, or charge; to specify the amount or
—	ercentage for the service, promotion, allowance, or charge
Syntax Notes: 1	At least one of SAC02 or SAC03 is required.
2	If either SAC03 or SAC04 is present, then the other is required.
3	If either SAC06 or SAC07 is present, then the other is required.
4	1 / 1
5	
6	
7	
8	If SAC16 is present, then SAC15 is required.
Semantic Notes: 1	
2	SAC05 is the total amount for the service, promotion, allowance, or charge.
_	If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3	<b>e</b> 1
4	
	different from the purchase order or invoice quantity.
	SAC10 and SAC11 used together indicate a quantity range, which could be a dollar
5	amount, that is applicable to service, promotion, allowance, or charge. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference
5	number as identified by the code used.
6	•
0	than one option of the promotion.
7	· ·
Comments: 1	
	In addition, it may be used in conjunction to further the code in SAC02.
2	In some business applications, it is necessary to advise the trading partner of the
	actual dollar amount that a particular allowance, charge, or promotion was based on
	to reduce ambiguity. This amount is commonly referred to a "Dollar Basis Amount". It
	is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in
	SAC09.

			Data Element Summary		
>>	Ref. <u>Des.</u> SAC01	Data <u>Element</u> 248	Name Allowance or Charge Indicator Code which indicates an allowance or charge for the service	Μ	ributes ID 1/1 ified
			N No Allowance or Charge		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b> Code identifying the service, promotion, allowance, or charg	X ge	ID 4/4
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
	SAC03	559	Agency Qualifier Code	Х	ID 2/2
			Code identifying the agency assigning the code values		
			EU Electric Utilities		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
>>	SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b> Agency maintained code identifying the service, promotion, charge	X allov	<b>AN 1/10</b> wance, or
			~		1 10 1000

			BAS Basic Customer Administrative Charges		
>>	SAC05	610	Amount	0	N2 1/15
			Monetary amount		
			Current Customer Charges		
X	SAC06	378	Allowance/Charge Percent Qualifier	X	ID 1/1
			Code indicating on what basis allowance or charge percent		
			Refer to 003070UIG Data Element Dictionary for acceptable	code:	values.
X	SAC07	332	Percent	Х	R 1/6
			Percent expressed as a percent		
X	SAC08	118	Rate	0	R 1/9
			Rate expressed in the standard monetary denomination for	the cu	irrency
X	SAC09	355	specified Unit or Basis for Measurement Code	X	ID 2/2
Λ	SACUS	355	Code specifying the units in which a value is being express		
			which a measurement has been taken	<i>cu</i> , or	manner m
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
Х	SAC10	380	Quantity	Х	R 1/15
			Numeric value of quantity		
X	SAC11	380	Quantity	0	R 1/15
			Numeric value of quantity		
Х	SAC12	331	Allowance or Charge Method of Handling Code	0	ID 2/2
			Code indicating method of handling for an allowance or cha	arge	
			Refer to 003070UIG Data Element Dictionary for acceptable	code :	values.
Х	SAC13	127	Reference Identification	Х	AN 1/30
			Reference information as defined for a particular Transaction	on Set	or as specified
V	64.014	770	by the Reference Identification Qualifier	•	A NI 1/20
X	SAC14	770	<b>Option Number</b> A unique number identifying available promotion or allow:	0	AN 1/20
			more than one is offered	ince o	ptions when
Х	SAC15	352	Description	Х	AN 1/80
			A free-form description to clarify the related data elements	and th	neir content
Х	SAC16	819	Language Code	0	ID 2/3
			Code designating the language used in text, from a standar		
			maintained by the International Standards Organization (ISC	) 639)	)

Segment:	SAC Allowance, or Charge Information - Arrears Interest
Position:	180
Loop:	SAC Optional
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or
-	percentage for the service, promotion, allowance, or charge
Syntax Notes:	1 At least one of SAC02 or SAC03 is required.
	2 If either SAC03 or SAC04 is present, then the other is required.
	<b>3</b> If either SAC06 or SAC07 is present, then the other is required.
	4 If either SAC09 or SAC10 is present, then the other is required.
	5 If SAC11 is present, then SAC10 is required.
	6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
	7 If SAC14 is present, then SAC13 is required.
	8 If SAC16 is present, then SAC15 is required.
Semantic Notes:	1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
	2 SAC05 is the total amount for the service, promotion, allowance, or charge.
	If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
	<b>3</b> SAC08 is the allowance or charge rate per unit.
	4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is
	different from the purchase order or invoice quantity.
	SAC10 and SAC11 used together indicate a quantity range, which could be a dollar
	amount, that is applicable to service, promotion, allowance, or charge.
	5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference
	<ul><li>number as identified by the code used.</li><li>6 SAC14 is used in conjunction with SAC13 to identify an option when there is more</li></ul>
	than one option of the promotion.
	<ul><li>7 SAC16 is used to identify the language being used in SAC15.</li></ul>
Comments:	<ol> <li>SAC04 may be used to uniquely identify the service, promotion, allowance, or charge.</li> </ol>
Comments.	In addition, it may be used in conjunction to further the code in SAC02.
	<ul> <li>In some business applications, it is necessary to advise the trading partner of the</li> </ul>
	actual dollar amount that a particular allowance, charge, or promotion was based on
	to reduce ambiguity. This amount is commonly referred to a "Dollar Basis Amount". It
	is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in
	SAC09.

			Data Element Summary		
	Ref. <u>Des.</u>	Data <u>Element</u>	Name	Att	<u>ributes</u>
>>	>> SAC01 24	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service	M spec	<b>ID 1/1</b> ified
			C Charge		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	SAC02 1300	<b>Service, Promotion, Allowance, or Charge Code</b> Code identifying the service, promotion, allowance, or charge	X ge	ID 4/4	
			I132 Total Invoice Amount		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
	SAC03	559	Agency Qualifier Code	Х	ID 2/2
			Code identifying the agency assigning the code values		
			EU Electric Utilities		
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
>>	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Agency maintained code identifying the service, promotion,	X allov	<b>AN 1/10</b> vance, or

			charge		
			INT Interest		
>>	SAC05	610	Amount	0	N2 1/15
			Monetary amount		
			Arrears interest		
X	SAC06	378	Allowance/Charge Percent Qualifier	Х	ID 1/1
			Code indicating on what basis allowance or charge per	cent is cal	culated
			Refer to 003070UIG Data Element Dictionary for accept	table code	values.
Χ	SAC07	332	Percent	Х	R 1/6
			Percent expressed as a percent		
Χ	SAC08	118	Rate	0	R 1/9
			Rate expressed in the standard monetary denomination specified	for the cu	irrency
Х	SAC09	355	Unit or Basis for Measurement Code	Х	ID 2/2
			Code specifying the units in which a value is being exp	ressed, or	manner in
			which a measurement has been taken		
	~ . ~		Refer to 003070UIG Data Element Dictionary for accept		
X	SAC10	380	<b>Quantity</b> Numeric value of quantity	X	R 1/15
Х	SAC11	380	Quantity	0	R 1/15
			Numeric value of quantity		
Х	SAC12	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or	O r charge	ID 2/2
			Refer to 003070UIG Data Element Dictionary for accept	table code	values.
X	SAC13	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transa	action Set	
			by the Reference Identification Qualifier		
X	SAC14	770	Option Number	0	AN 1/20
			A unique number identifying available promotion or all more than one is offered	lowance o	ptions when
Χ	SAC15	352	Description	Х	AN 1/80
			A free-form description to clarify the related data eleme	ents and th	eir content
X	SAC16	819	Language Code	0	ID 2/3
			Code designating the language used in text, from a star		
			maintained by the International Standards Organization	(ISO 639)	)

Segment:	${f SAC}$ Allowance, or Charge Information - Supplier Arrears
Position:	180
Loop:	SAC Optional
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or
	percentage for the service, promotion, allowance, or charge
Syntax Notes:	1 At least one of SAC02 or SAC03 is required.
2	2 If either SAC03 or SAC04 is present, then the other is required.
	3 If either SAC06 or SAC07 is present, then the other is required.
	4 If either SAC09 or SAC10 is present, then the other is required.
	5 If SAC11 is present, then SAC10 is required.
	6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
	7 If SAC14 is present, then SAC13 is required.
	8 If SAC16 is present, then SAC15 is required.
Semantic Notes:	1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
	2 SAC05 is the total amount for the service, promotion, allowance, or charge.
	If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
	<b>3</b> SAC08 is the allowance or charge rate per unit.
	4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is
	different from the purchase order or invoice quantity.
	SAC10 and SAC11 used together indicate a quantity range, which could be a dollar
	amount, that is applicable to service, promotion, allowance, or charge.
	5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference
	number as identified by the code used.
	<b>6</b> SAC14 is used in conjunction with SAC13 to identify an option when there is more
	than one option of the promotion.
	7 SAC16 is used to identify the language being used in SAC15.
Comments:	<b>1</b> SAC04 may be used to uniquely identify the service, promotion, allowance, or charge.
	In addition, it may be used in conjunction to further the code in SAC02.
	2 In some business applications, it is necessary to advise the trading partner of the
	actual dollar amount that a particular allowance, charge, or promotion was based on
	to reduce ambiguity. This amount is commonly referred to a "Dollar Basis Amount". It
	is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in
	SAC09.

			Data Element Summary		
	Ref. <u>Des.</u>	Data <u>Element</u>	Name	<u>Att</u>	<u>ributes</u>
>>	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service	M e spec	<b>ID 1/1</b> ified
			C Charge	1-	1
X	SAC02	1300	Refer to 003070UIG Data Element Dictionary for acceptable Service, Promotion, Allowance, or Charge Code Code identifying the service, promotion, allowance, or charge	Х	<b>ID 4/4</b>
			Refer to 003070UIG Data Element Dictionary for acceptable		
	SAC03	559	Agency Qualifier Code Code identifying the agency assigning the code values	X	ID 2/2
			EU Electric Utilities Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
>>	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Agency maintained code identifying the service, promotion charge	<b>X</b> , allov	<b>AN 1/10</b> wance, or

			PRB Past Due Balance		
>>	SAC05	610	Amount Monetary amount	0	N2 1/15
			Supplier Arrears Amount		
X	SAC06	378	Allowance/Charge Percent Qualifier Code indicating on what basis allowance or charge percent	X is cal	ID 1/1 culated
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	SAC07	332	Percent Percent expressed as a percent	X	R 1/6
X	SAC08	118	<b>Rate</b> Rate expressed in the standard monetary denomination for specified	0 the cu	<b>R 1/9</b> Irrency
X	SAC09	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being express which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	SAC10	380	<b>Quantity</b> Numeric value of quantity	X	R 1/15
X	SAC11	380	<b>Quantity</b> Numeric value of quantity	0	R 1/15
X	SAC12	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or cha	<b>O</b> arge	ID 2/2
			Refer to 003070UIG Data Element Dictionary for acceptable	code	values.
X	SAC13	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction by the Reference Identification Qualifier	X on Set	AN 1/30 or as specified
X	SAC14	770	<b>Option Number</b> A unique number identifying available promotion or allowated more than one is offered	O ance o	AN 1/20 ptions when
X	SAC15	352	<b>Description</b> A free-form description to clarify the related data elements	X and th	AN 1/80 neir content
X	SAC16	819	<b>Language Code</b> Code designating the language used in text, from a standard maintained by the International Standards Organization (ISC	O d code	<b>ID 2/3</b> e list

Sagmante	SAC	<ul> <li>Allowance, or Charge Information - Total Amount Due S</li> </ul>	unnlion
Segment:		Anowance, or Charge Information - Total Amount Due S	buppner
Position:	180		
Loop:		Optional	
Level:	Detail: Optional		
Usage: Max Use:	1		
Purpose:	-	st or identify a service, promotion, allowance, or charge; to s	necify the amount or
i ui pose.	-	to fuentify a service, promotion, allowance, or charge, to s	peerly the amount of
Syntax Notes:		ast one of SAC02 or SAC03 is required.	
Syntan 1 (Stept		her SAC03 or SAC04 is present, then the other is required.	
		her SAC06 or SAC07 is present, then the other is required.	
		her SAC09 or SAC10 is present, then the other is required.	
		AC11 is present, then SAC10 is required.	
		C13 is present, then at least one of SAC02 or SAC04 is requi	red.
		C14 is present, then SAC13 is required.	
		C16 is present, then SAC15 is required.	
Semantic Notes:		C01 is "A" or "C", then at least one of SAC05, SAC07, or SA	C08 is required.
	2 SAC	05 is the total amount for the service, promotion, allowance,	or charge.
	If SA	C05 is present with SAC07 or SAC08, then SAC05 takes pre	cedence.
		08 is the allowance or charge rate per unit.	
	4 SAC	10 and SAC11 is the quantity basis when the allowance or cl	harge quantity is
	diffe	rent from the purchase order or invoice quantity.	
	SAC	10 and SAC11 used together indicate a quantity range, which	n could be a dollar
	amo	ant, that is applicable to service, promotion, allowance, or cha	arge.
		13 is used in conjunction with SAC02 or SAC04 to provide a	specific reference
		ber as identified by the code used.	
		14 is used in conjunction with SAC13 to identify an option w	when there is more
		one option of the promotion.	
a i		16 is used to identify the language being used in SAC15.	
Comments:		04 may be used to uniquely identify the service, promotion, a	
		dition, it may be used in conjunction to further the code in SA	
		me business applications, it is necessary to advise the tradir al dollar amount that a particular allowance, charge, or promo	
		duce ambiguity. This amount is commonly referred to a "Dol	
		presented in the SAC segment in SAC10 using the qualifier ".	
	SAC		DO - Donais in
Notes:		on last record for Multiple meter accounts and reflects the ar	nounts
100000		om the SAC for Current Amount, Arrears Interest and Suppli	
		, <b>11</b>	
		Data Element Summary	
Ref.	Data		
Des.	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
SAC01	248	Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service	e specified
		N No Allowance or Charge	
		Refer to 003070UIG Data Element Dictionary for acceptable	code values
SAC02	1300	• •	
SAC02	1300	Service, Promotion, Allowance, or Charge Code Code identifying the service, promotion, allowance, or charge	
		Refer to 003070UIG Data Element Dictionary for acceptable	code values.
SAC03	559	Agency Qualifier Code	X ID 2/2
		Code identifying the agency assigning the code values	
		AS Assigned by Seller	
			aada yaluar
		Refer to 003070UIG Data Element Dictionary for acceptable	
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X AN 1/10
		Agency maintained code identifying the service, promotion	, allowance, or

>>

Х

>>

			charge		
			TOT Total Due		
>>	SAC05	610	Amount	0	N2 1/15
			Monetary amount		
			Total Amount Due Supplier		
			This figure represents the SUPPLIER ARREARS, ARREARS	S AM	IOUNT and
			CURRENT AMOUNT added together.		
X	SAC06	378	Allowance/Charge Percent Qualifier Code indicating on what basis allowance or charge percent is	X	ID 1/1
\$7		222	Refer to 003070UIG Data Element Dictionary for acceptable of		
X	SAC07	332	Percent Percent expressed as a percent	X	R 1/6
X	SAC08	118	Rate	0	R 1/9
Λ	SACUO	110	Rate expressed in the standard monetary denomination for the	0	
			specified	10 00	in one y
X	SAC09	355	Unit or Basis for Measurement Code	Х	ID 2/2
			Code specifying the units in which a value is being expressed	d, or	manner in
			which a measurement has been taken	1	1
<b>N</b> 7	G + G10	200	Refer to 003070UIG Data Element Dictionary for acceptable of		
X	SAC10	380	<b>Quantity</b> Numeric value of quantity	Х	R 1/15
Х	SAC11	380	Quantity	0	R 1/15
Λ	SACII	300	Numeric value of quantity	U	K 1/15
X	SAC12	331	Allowance or Charge Method of Handling Code	0	ID 2/2
	511012	001	Code indicating method of handling for an allowance or char	-	
			Refer to 003070UIG Data Element Dictionary for acceptable of	-	values.
Х	SAC13	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction	ı Set	or as specified
			by the Reference Identification Qualifier		
X	SAC14	770	Option Number	0	AN 1/20
			A unique number identifying available promotion or allowan more than one is offered	ice o	ptions when
X	SAC15	352	Description	x	AN 1/80
1 <b>4</b>	511010		A free-form description to clarify the related data elements as		
X	SAC16	819	Language Code	0	ID 2/3
			Code designating the language used in text, from a standard	code	
			maintained by the International Standards Organization (ISO		

Segment:	TXI Tax Information - Current Sales Tax Amount
Position:	190
Loop:	SAC Optional
Level:	Detail:
Usage:	Optional
Max Use:	1
Purpose:	To specify tax information
Syntax Notes:	1 At least one of TXI02 TXI03 or TXI06 is required.
	2 If either TXI04 or TXI05 is present, then the other is required.
	<b>3</b> If TXI08 is present, then TXI03 is required.
Semantic Notes:	1 TXI02 is the monetary amount of the tax.
	2 TXI03 is the tax percent expressed as a decimal.
	<b>3</b> TXI07 is a code indicating the relationship of the price or amount to the associated
	segment.

**Comments:** 

	Ref.	Data	Data Element Summary		
	Des.	Element	Name	Att	ributes
>>	TXI01	963	Tax Type Code	Μ	ID 2/2
			Code specifying the type of tax		
			SU Sales and Use Tax		
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
>>	<b>TXI02</b>	782	Monetary Amount Monetary amount	X	R 1/15
			Current Sales Tax Amount		
X	<b>TXI03</b>	954	Percent	Х	R 1/10
			Percentage expressed as a decimal		
Х	<b>TXI04</b>	955	Tax Jurisdiction Code Qualifier	Х	ID 2/2
			Code identifying the source of the data used in tax jurisdict		
			Refer to 003070UIG Data Element Dictionary for acceptable	e code	values.
Х	TX105	956	Tax Jurisdiction Code	Х	AN 1/10
			Code identifying the taxing jurisdiction		
X	<b>TXI06</b>	441	Tax Exempt Code	Х	ID 1/1
			Code identifying exemption status from sales and use tax		
			Refer to 003070UIG Data Element Dictionary for acceptable		
>>	<b>TXI07</b>	662	Relationship Code	0	ID 1/1
			Code indicating the relationship between entities		
			I Included		
			Refer to 003070UIG Data Element Dictionary for acceptable		
X	<b>TXI08</b>	828	Dollar Basis For Percent	0	R 1/9
			Dollar basis to be used in the percent calculation of the allo		•
X	<b>TXI09</b>	325	Tax Identification Number	.0	AN 1/20
			Number assigned to a purchaser (buyer, orderer) by a taxing county, etc.); often called a tax exemption number or certific		
X	TXI10	350	Assigned Identification		AN 1/20
4.			Alphanumeric characters assigned for differentiation within	-	

Segment:	N1 Name - Customer						
Position:	240						
Loop:	N1 Optional (Must Use)						
Level:	Detail:						
Usage:	Optional (Must Use)						
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:	<b>1</b> This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must						

- I find 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.

			Data Excitent Summary		
	Ref. <u>Des.</u>	Data <u>Element</u>	Name	Att	<u>ributes</u>
>>	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical locat individual	M tion, pro	ID 2/3 operty or an
			8R Consumer Service Provider (CSP) Customer		1
			Refer to 003070UIG Data Element Dictionary for acceptab		
X	N102	93	Name Free-form name	Х	AN 1/60
>>	N103 60		Identification Code QualifierCode designating the system/method of code structure usCode (67)97Receivers Code	X ed for l	ID 1/2 Identification
			Refer to 003070UIG Data Element Dictionary for acceptab	le code	values.
»>	> N104	N104 67	<b>Identification Code</b> Code identifying a party or other code	Х	AN 2/20
			Distribution Company Account Number		
X	N105	706	Entity Relationship Code Code describing entity relationship	0	ID 2/2
			Refer to 003070UIG Data Element Dictionary for acceptable	le code	values.
X	N106	98	Entity Identifier Code Code identifying an organizational entity, a physical locat individual Refer to 003070UIG Data Element Dictionary for acceptab	-	

# TDS Total Monetary Value Summary

Segment:	TDS Total Monetary Value Summary
Position:	010
Loop:	
Level:	Summary:
Usage:	Mandatory
Max Use:	1
Purpose:	To specify the total invoice discounts and amounts
Syntax Notes:	
Semantic Notes:	<b>1</b> TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
	2 TDS02 indicates the amount upon which the terms discount amount is calculated.
	<b>3</b> TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
	<b>4</b> TDS04 indicates the total amount of terms discount.
Comments:	<b>1</b> TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

	Ref.	Data	·			
	Des.	<u>Element</u>	<u>Name</u>	Att	<u>Attributes</u>	
>>	TDS01	610	Amount	Μ	N2 1/15	
			Monetary amount			
			File Total Amount Due Supplier			
Х	TDS02	610	Amount	0	N2 1/15	
			Monetary amount			
X	TDS03	610	Amount	0	N2 1/15	
			Monetary amount			
Χ	TDS04	610	Amount	0	N2 1/15	
			Monetary amount			

Segment:	CTT Transaction Totals				
Position:	070				
Loop:					
Level:	Summary:				
Usage:	Optional				
Max Use:	1				
Purpose:	To transmit a hash total for a specific element in the transaction set				
Syntax Notes:	1 If either CTT03 or CTT04 is present, then the other is required.				
	2 If either CTT05 or CTT06 is present, then the other is required.				
Semantic Notes:					
Comments:	<b>1</b> This segment is intended to provide hash totals to validate transaction completeness and correctness.				

		<b>D</b> (	Data Element Summary		
>>	Ref. <u>Des.</u> CTT01	Data <u>Element</u> 354	<u>Name</u> Number of Line Items Total number of line items in the transaction set	<u>Att</u> M	<u>ributes</u> N0 1/6
			Accumulated total of detail records created		
X	CTT02	347	Hash TotalOR 1/10Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.		
			Example:		
x	CTT03	81	0018 First occurrence of value being hashed18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field. Weight X R 1/10		
			Numeric value of weight		
X	CTT04	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expresse which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	<b>CTT05</b>	183	<b>Volume</b> Value of volumetric measure	X	R 1/8
X	CTT06	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expresse which a measurement has been taken Refer to 003070UIG Data Element Dictionary for acceptable		
X	<b>CTT07</b>	352	<b>Description</b> A free-form description to clarify the related data elements a	O and th	AN 1/80 heir content

# SE Transaction Set Trailer

Segment:	SE Transaction Set Trailer			
Position:	080			
Loop:				
Level:	Summary:			
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:				
<b>Comments:</b>	1 SE is the last segment of each transaction set.			

	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	<u>ributes</u>	
>>	SE01	96	Number of Included Segments	Μ	N0 1/10	
			Total number of segments included in a transaction set inclused segments	ıding	ST and SE	
>>	SE02	329	Transaction Set Control Number	М	AN 4/9	
		_	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set			