

**Portland General Electric
Invoice
ANSI X12 810 5010
Customer Commercial Invoice**

Version 1.0
Release Date: 8/30/2021

810 Invoice

Functional Group ID=**IN**

Introduction:

This X12 Transaction Set contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	0050	ISA	Interchange Control Header	O	1		
	0150	GS	Functional Group Header	O	1		
M	0100	ST	Transaction Set Header	M	1		
M	0200	BIG	Beginning Segment for Invoice	M	1		
LOOP ID - N1						200	
	0700	N1	Party Identification	O	1		
	0900	N3	Party Location	O	2		
	1000	N4	Geographic Location	O	1		
	1200	PER	Administrative Communications Contact	O	3		
LOOP ID - N1						200	
	0700	N1	Party Identification	O	1		
	0800	N2	Additional Name Information	O	2		
	0900	N3	Party Location	O	2		
	1000	N4	Geographic Location	O	1		
	1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - IT1						200000	
	0100	IT1	Baseline Item Data (Invoice)	O	1		
	0590	MEA	Measurements	O	40		
	1200	REF	Reference Information	O	>1		
	1500	DTM	Date/Time Reference	O	10		
LOOP ID - SLN						1000	
	2000	SLN	Subline Item Detail	O	1		
	2300	SAC	Service, Promotion, Allowance, or Charge Information	O	>1		

		LOOP ID - N1			200	
2400	N1	Party Identification	O		1	
2600	N3	Party Location	O		2	
2700	N4	Geographic Location	O		1	

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	TDS	Total Monetary Value Summary	M	1		
	0200	TXI	Tax Information	O	>1		
			LOOP ID - SAC			>1	
	0400	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	0700	CTT	Transaction Totals	O	1		n1
M	0800	SE	Transaction Set Trailer	M	1		
	0850	GE	Functional Group Trailer	O	1		
	0950	IEA	Interchange Control Trailer	O	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used CTT02 is the hash total of the quantities invoiced (IT102) for each IT1 segment.

Segment: **ISA** Interchange Control Header
Position: 0050
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ISA01	I01	Authorization Information Qualifier Code identifying the type of information in the Authorization Information Refer to 004010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
M	ISA02	I02	Authorization Information Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M 1 AN 10/10
M	ISA03	I03	Security Information Qualifier Code identifying the type of information in the Security Information Refer to 004010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
M	ISA04	I04	Security Information This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M 1 AN 10/10
M	ISA05	I05	Interchange ID Qualifier Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified Refer to 004010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
M	ISA06	I06	Interchange Sender ID Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M 1 AN 15/15
M	ISA07	I05	Interchange ID Qualifier Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified Refer to 004010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
M	ISA08	I07	Interchange Receiver ID Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	M 1 AN 15/15
M	ISA09	I08	Interchange Date Date of the interchange	M 1 DT 6/6
M	ISA10	I09	Interchange Time Time of the interchange	M 1 TM 4/4
M	ISA11	I65	Repetition Separator Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator	M 1 AN 1/1
M	ISA12	I11	Interchange Control Version Number Code specifying the version number of the interchange control segments	M 1 ID 5/5

			00400 (Maximum length of 5).		
M	ISA13	I12	Interchange Control Number	M	1 N0 9/9
			A control number assigned by the interchange sender		
M	ISA14	I13	Acknowledgment Requested	M	1 ID 1/1
			Code indicating sender's request for an interchange acknowledgment		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
M	ISA15	I14	Interchange Usage Indicator	M	1 ID 1/1
			Code indicating whether data enclosed by this interchange envelope is test, production or information		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
M	ISA16	I15	Component Element Separator	M	1 AN 1/1
			Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator		

Segment: **GS** Functional Group Header
Position: 0150
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To indicate the beginning of a functional group and to provide control information
Syntax Notes:
Semantic Notes:

- 1 GS04 is the group date.
- 2 GS05 is the group time.
- 3 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

- 1 A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	GS01	479	Functional Identifier Code Code identifying a group of application related transaction sets Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
M	GS02	142	Application Sender's Code Code identifying party sending transmission; codes agreed to by trading partners	M 1 AN 2/15
M	GS03	124	Application Receiver's Code Code identifying party receiving transmission; codes agreed to by trading partners	M 1 AN 2/15
M	GS04	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M 1 DT 8/8
M	GS05	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M 1 TM 4/8
M	GS06	28	Group Control Number Assigned number originated and maintained by the sender	M 1 N0 1/9
M	GS07	455	Responsible Agency Code Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 1/2
M	GS08	480	Version / Release / Industry Identifier Code Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 AN 1/12

Segment: **ST** Transaction Set Header
Position: 0100
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes:

- 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
- 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 810 Invoice	M 1 ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M 1 AN 4/9

Segment: **BIG** Beginning Segment for Invoice
Position: 0200
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 is the consolidated invoice number associated with the invoice identified in BIG02. When BIG07 contains code CI (Consolidated Invoice), BIG02 will contain the consolidated invoice number and BIG10 is not used.

Comments:

- 1 BIG07 is used only to further define the type of invoice when needed.

Data Element Summary

	Ref.	Data	Data Element Summary	
			<u>Element</u>	<u>Name</u>
M	BIG01	373	Date	M 1 DT 8/8
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	
M	BIG02	76	Invoice Number	M 1 AN 1/22
			Identifying number assigned by issuer	
	BIG04	324	Purchase Order Number	O 1 AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	
	BIG07	640	Transaction Type Code	O 1 ID 2/2
			Code specifying the type of transaction	
			Refer to 005010 Data Element Dictionary for acceptable code values.	
	BIG08	353	Transaction Set Purpose Code	O 1 ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
	BIG09	306	Action Code	O 1 ID 1/2
			Code indicating type of action	
			F Final	

Segment: **N1 Party Identification**
Position: 0700
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98 Entity Identifier Code	M 1 ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		RI Remit To	
	N102	93 Name	X 1 AN 1/60
		Free-form name	
	N103	66 Identification Code Qualifier	X 1 ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
	N104	67 Identification Code	X 1 AN 2/80
		Code identifying a party or other code	
		972084438	

Segment: N3 Party Location
Position: 0900
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information PO BOX 4438	M 1 AN 1/55

Segment: **N4 Geographic Location**
Position: 1000
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:

- 1 Only one of N402 or N407 may be present.
- 2 If N406 is present, then N405 is required.
- 3 If N407 is present, then N404 is required.

Semantic Notes:
Comments:

- 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
N401	19	City Name	O 1 AN 2/30
		Free-form text for city name	
		PORTLAND	
N402	156	State or Province Code	X 1 ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
		OR	
N403	116	Postal Code	O 1 ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
		972084438	

Segment: **PER** Administrative Communications Contact
Position: 1200
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366 Contact Function Code Code identifying the major duty or responsibility of the person or group named CR Customer Relations	M 1 ID 2/2
	PER03	365 Communication Number Qualifier Code identifying the type of communication number TE Telephone	X 1 ID 2/2
	PER04	364 Communication Number Complete communications number including country or area code when applicable 18005428818	X 1 AN 1/256

Segment: **N1 Party Identification**
Position: 0700
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

Ref.	Data Element	Name	Attributes	
			M	1 ID
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BT Bill-to-Party	M	1 ID 2/3
	N102	93 Name Free-form name	X	1 AN 1/60
	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 91 Assigned by Seller or Seller's Agent	X	1 ID 1/2
	N104	67 Identification Code Code identifying a party or other code	X	1 AN 2/80

Segment: N2 Additional Name Information
Position: 0800
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	N201	93 Name Free-form name	M 1 AN 1/60

Segment: N3 Party Location
Position: 0900
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N301	166	Address Information Address information	M 1 AN 1/55

Segment: **N4 Geographic Location**
Position: 1000
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:

- 1 Only one of N402 or N407 may be present.
- 2 If N406 is present, then N405 is required.
- 3 If N407 is present, then N404 is required.

Semantic Notes:
Comments:

- 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name Free-form text for city name	O 1 AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	X 1 ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15

Segment: **ITD** Terms of Sale/Deferred Terms of Sale
Position: 1300
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify terms of sale
Syntax Notes:

- 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantic Notes:

- 1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

- 1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
ITD01	336	Terms Type Code Code identifying type of payment terms 05 Discount Not Applicable	O 1 ID 2/2
ITD02	333	Terms Basis Date Code Code identifying the beginning of the terms period 4 Specified Date	O 1 ID 1/2
ITD06	446	Terms Net Due Date Date when total invoice amount becomes due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8

Segment: **IT1** **Baseline Item Data (Invoice)**
Position: 0100
Loop: IT1 Optional
Level: Detail
Usage: Optional
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 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.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
IT101	350		Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O 1 AN 1/20
IT102	358		Quantity Invoiced Number of units invoiced (supplier units)	X 1 R 1/15
IT103	355		Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour	X 1 ID 2/2
IT104	212		Unit Price Price per unit of product, service, commodity, etc.	X 1 R 1/17
IT106	235		Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	X 1 ID 2/2
IT107	234		Product/Service ID Identifying number for a product or service ELECTRIC	X 1 AN 1/48

Segment: **MEA** Measurements
Position: 0590
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 40
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 Only one of MEA04 or MEA12 may be present.
- 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
- 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
- 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 6 Only one of MEA08 or MEA03 may be present.
- 7 If either MEA11 or MEA12 is present, then the other is required.

Semantic Notes:

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
- 2 MEA11 is the external code list for the unit of measure.
- 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.

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.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual BD Billed Dimensions EE Meter reading-beginning estimated/ending estimated	O 1 ID 2/2
MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies MU Multiplier	O 1 ID 1/3
MEA03	739	Measurement Value The value of the measurement	X 1 R 1/20
MEA04	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X 1
M	C00101	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each KH Kilowatt Hour	M ID 2/2
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X 1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X 1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X 1 ID 2/2

		Refer to 005010 Data Element Dictionary for acceptable code values.		
MEA09	752	Surface/Layer/Position Code	O	1 ID 2/2
		Code indicating the product surface, layer or position that is being described		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
MEA10	1373	Measurement Method or Device	O	1 ID 2/4
		The method or device used to record the measurement		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
MEA11	1270	Code List Qualifier Code	X	1 ID 1/3
		Code identifying a specific industry code list		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
MEA12	1271	Industry Code	X	1 AN 1/30
		Code indicating a code from a specific industry code list		

Segment: **REF** Reference Information
Position: 1200
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification AA Accounts Receivable Statement Number LU Location Number MG Meter Number RB Rate code number	M 1 ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50

Segment: **DTM** **Date/Time Reference**
Position: 1500
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time	M 1 ID 3/3
			186 Invoice Period Start When the billing period covered by an invoice begins	
			187 Invoice Period End When the billing period covered by an invoice ends	
			514 Transferred	
	DTM02	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X 1 DT 8/8

Segment: **SLN** Subline Item Detail

Position: 2000

Loop: SLN Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify product subline detail item data

Syntax Notes:

- 1 If either SLN04 or SLN05 is present, then the other is required.
- 2 If SLN07 is present, then SLN06 is required.
- 3 If SLN08 is present, then SLN06 is required.
- 4 If either SLN09 or SLN10 is present, then the other is required.
- 5 If either SLN11 or SLN12 is present, then the other is required.
- 6 If either SLN13 or SLN14 is present, then the other is required.
- 7 If either SLN15 or SLN16 is present, then the other is required.
- 8 If either SLN17 or SLN18 is present, then the other is required.
- 9 If either SLN19 or SLN20 is present, then the other is required.
- 10 If either SLN21 or SLN22 is present, then the other is required.
- 11 If either SLN23 or SLN24 is present, then the other is required.
- 12 If either SLN25 or SLN26 is present, then the other is required.
- 13 If either SLN27 or SLN28 is present, then the other is required.

Semantic Notes:

- 1 SLN01 is the identifying number for the subline item.
- 2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

- 1 See the Data Element Dictionary for a complete list of IDs.
- 2 SLN01 is related to (but not necessarily equivalent to) the baseline item number.
Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
- 3 SLN09 through SLN28 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.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	SLN01	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	M 1 AN 1/20
	SLN02	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O 1 AN 1/20
M	SLN03	662 Relationship Code Code indicating the relationship between entities A Add	M 1 ID 1/1

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 2300
Loop: SLN 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 SAC14 is present, then SAC13 is required.
 - 7 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.
 - 3 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:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define 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 as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	SAC01	248 Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge	M 1 ID 1/1
	SAC03	559 Agency Qualifier Code Code identifying the agency assigning the code values EU Electric Utilities ZZ Mutually Defined	X 1 ID 2/2
	SAC04	1301 Agency Service, Promotion, Allowance, or Charge Code Refer Appendix-A for Charge codes	X 1 AN 1/10
	SAC05	610 Amount Monetary amount	O 1 N2 1/15
	SAC09	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each	X 1 ID 2/2

		KH	Kilowatt Hour		
SAC10	380	Quantity		X	1 R 1/15
		Numeric value of quantity			
SAC15	352	Description		X	1 AN 1/80
		A free-form description to clarify the related data elements and their content			

Segment: **N1 Party Identification**
Position: 2400
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M 1 ID 2/3
		MQ Delivery Location	
	N102	93 Name Free-form name OCCUPANT	X 1 AN 1/60

Segment: N3 Party Location
Position: 2600
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
M	N301	166	Address Information Address information	M 1 AN 1/55

Segment: **N4 Geographic Location**
Position: 2700
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:

- 1 Only one of N402 or N407 may be present.
- 2 If N406 is present, then N405 is required.
- 3 If N407 is present, then N404 is required.

Semantic Notes:
Comments:

- 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name Free-form text for city name	O 1 AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	X 1 ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15

Segment: **TDS** Total Monetary Value Summary
Position: 0100
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To specify the total invoice discounts and amounts
Syntax Notes:
Semantic Notes:

- 1 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.
- 3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4 TDS04 indicates the total amount of terms discount.

Comments:

- 1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> TDS01	<u>Element</u> 610 Amount Monetary amount	M 1 N2 1/15

Segment: **TXI** Tax Information
Position: 0200
Loop:
Level: Summary
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.
- 3 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.
- 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	TXI01	963 Tax Type Code Code specifying the type of tax Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
	TXI02	782 Monetary Amount Monetary amount	X 1 R 1/18

Segment: **SAC** Service, Promotion, Allowance, or Charge Information
Position: 0400
Loop: SAC Optional
Level: Summary
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 SAC14 is present, then SAC13 is required.
 - 7 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.
 - 3 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:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define 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 as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge	M 1 ID 1/1
	SAC03	559	Agency Qualifier Code Code identifying the agency assigning the code values Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Refer Appendix-A for Charge codes	X 1 AN 1/10
	SAC05	610	Amount Monetary amount	O 1 N2 1/15
	SAC09	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	SAC10	380	Quantity	X 1 R 1/15

SAC15	352	Numeric value of quantity Description	X	1 AN 1/80
		A free-form description to clarify the related data elements and their content		

Segment: **CTT** Transaction Totals
Position: 0700
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:

- 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01 354	Number of Line Items Total number of line items in the transaction set	M 1 N0 1/6

Segment: **SE** Transaction Set Trailer
Position: 0800
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:

Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

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

Segment: **GE** Functional Group Trailer
Position: 0850
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information
Syntax Notes:
Semantic Notes: 1 The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.
Comments: 1 The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	GE01	97	Number of Transaction Sets Included Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M 1 N0 1/6
M	GE02	28	Group Control Number Assigned number originated and maintained by the sender	M 1 N0 1/9

Segment: **IEA** Interchange Control Trailer
Position: 0950
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in an interchange	M 1 N0 1/5
M	IEA02	I12	Interchange Control Number A control number assigned by the interchange sender	M 1 N0 9/9

APPENDIX - A

SAC04	SAC09	SAC15
ODL001	EA	%M Charge for %C Light/s
ODL001	EA	%M Charge for %C Pole/s
ADJ000	KH	102 - Regional Power Act Exchange Credit
ADJ000	KH	102 RPA Exchange Credit (%Q kWh x %I)
ADJ000	KH	105 - Regulatory Adjustments
ADJ000	KH	105 Regulatory Adjustments (%Q kWh x %I)
ADJ000	KH	109 - Energy Efficiency Funding Adjustment
ADJ000	KH	109 Energy Efficiency Funding Adj (%Q kWh x %I)
ADJ000	KH	110 - Energy Efficiency Customer Service
ADJ000	KH	110 Energy Efficiency Customer Svc (%Q kWh x %I)
ADJ000	KH	122 - Renewable Resources Automatic Adjustment Clause
ADJ000	KH	122 - Renewable Resources Automatic Adjustment Clause - Standard
ADJ000	KH	122 Renewable Resource Adjustment (%Q kWh x %I)
ADJ000	KH	123 - Decoupling Adjustment
ADJ000	KH	123 - Decoupling Adjustment - Standard
ADJ000	KH	123 Decoupling Adjustment (%Q kWh x %I)
ADJ000	KH	125 Annual Power Cost Update (%Q kWh x %I)
ADJ000	KH	126 - Annual Power Cost Variance Mechanism
ADJ000	KH	126 Power Cost Variance Mechanism (%Q kWh x %I)
ADJ000	KH	128 - Annual Short-Term Transition Adjustment
ADJ000	KH	128 - Short-Term Transition Adjustment
ADJ000	KH	128 Short-Term Transition Adjust (%Q kWh x %I)
ADJ000	KH	129 Long Term Transition Cost Adj.
ADJ000	KH	129 Long Term Transition Cost Adj. (%Q kWh x %I)
ADJ000	KH	135 Demand Response (%Q kWh x %I)
ADJ000	KH	137 - Customer-Owned Solar Payment Option Cost Recovery Mechanism
ADJ000	KH	137 Solar Payment Option Cost Recov (%Q kWh x %I)
ADJ000	KH	143 - Spent Fuel Adjustment
ADJ000	KH	143 Spent Fuel Adjustment (%Q kWh x %I)
ADJ000	KH	145 - Boardman Power Plant Decommissioning Adjustment
ADJ000	KH	145 Boardman Decommissioning Adj (%Q kWh x %I)
ADJ000	KH	146 - Colstrip Power Plant Life Adjustment
ADJ000	KH	146 Colstrip Power Plant Oper. Life Adj (%Q kWh x %I)
ADJ000	KH	149 - Environmental Remediation Cost Recovery Adjustment
ADJ000	KH	149 Environmental Remediation Cost Recovery Adj(%Q kWh x %I)
ENC003	KH	Average Melded Price - Off Peak kWh
ENC039	KH	Average Melded Price - On Peak kWh
SMD015	EA	Basic Charge
MSC001	EA	Bill Factor Price
MSC000	KH	Calculate Net Usage Volumetric Charges
ODL001	EA	Charge for %C Light/s

ODL001	EA	Charge for %C Pole/s
MSC000	KH	Clean Wind (sm) Green Tags (%Q kWh x %I)
MSC001	EA	Clean Wind Monthly Charge
MSC001	EA	Collection Agency Commission (Rate = %V)
DMD001	K1	Demand Charge %Q
DMD001	K1	Demand Charge %Q KW
DMD001	K1	Demand Charge (%Q KW x %I)
DIS001	K1	Distribution Charge (%Q x %I)
DIS000	KH	Distribution Charge (%Q kWh x %I)
DIS001	K1	Distribution Charge (%Q x %I)
DIS001	K1	Distribution Charge Facility Capacity (%Q KW x %I)
MSC001	EA	EIS Miscellaneous Monthly Fee
MSC001	EA	Employee Discount
ENC001	KH	Energy Charge (%Q kWh x %I)
ENC003	KH	Energy Off-Peak Usage
ENC039	KH	Energy On-Peak Usage
ENC001	KH	Energy Use Charge (%Q kWh x %I)
MSC000	KH	Excess kWh Credit
ENC001	KH	First Block Adjustment (%Q kWh x %I)
MSC001	EA	Green Future Solar
MSC000	KH	Green Source (%Q kWh x %I)
MSC000	KH	Green Source (%Q x %I)
MSC000	KH	Green Source (sm) (%Q kWh x %I)
MSC000	KH	Green Source (sm) (%Q kWh x %I)
MSC001	EA	Habitat Support Charge
SUR07	EA	Low Income Assistance
MSC001	EA	Meter Rental
ENC000	KH	Mid-Peak Usage (%Q kWh x %I)
MSC000	KH	Net Usage Volumetric Charges
MSC001	EA	Net VIR Payment
MSC001	EA	Non-Network Meter Read
DMD006	K1	Off-Peak Demand (%Q KW x %I)
ENC003	KH	Off-Peak Usage (%Q kWh x %I)
ENC003	KH	Off-Peak Usage of (%Q kWh x %I)
ENC003	KH	Off-Peak Usage of (%Q x %I)
DMD007	K1	On-Peak Demand (%Q KW x %I)
ENC039	KH	On-Peak Usage (%Q kWh x %I)
ENC039	KH	On-Peak Usage of (%Q kWh x %I)
MSC024	EA	Public Purpose Charge (%I)
DMD004	K2	Reactive Demand Charge (%Q x %I) Billed KVAR (Reactive Demand of %K Actual KVAR)
RRR003	EA	Sandy UG Conversion Refund
MSC001	EA	Solar Customer Charge
MSC000	KH	Solar Energy Adjustment Credit
MSC001	EA	Subtotal - Adjusting Schedules
MSC001	EA	Subtotal - Employee Discount

MSC001	EA	Subtotal - Energy Charge
MSC001	EA	Subtotal - Energy Charges
MSC001	EA	Subtotal - Light & Pole Charges
MSC001	EA	Subtotal - Other Charges/Credits
MSC001	EA	Subtotal - Renewable Programs
MSC001	EA	Subtotal - Taxes and Fees
ENC001	KH	System Usage Charge
ENC001	KH	System Usage Charge (%Q kWh x %I)
ENC001	KH	System Usage Charge (%Q kWh)
ENC000	KH	Three Period Mid-Peak Usage (%Q kWh x %I)
ENC000	KH	Three Period Off-Peak Usage (%Q kWh x %I)
ENC000	KH	Three Period On-Peak Usage (%Q kWh x %I)
MSC001	EA	Total Gross Amount
MSC001	EA	Total Usage Volumetric Charges
TRN001	K1	Transmission Charge (%Q KW %I)
TRN001	K1	Transmission Charge (%Q KW x %I)
TRN000	KH	Transmission Charge (%Q kWh x %I)
TRN001	K1	Transmission Charge (%Q x %I)
ENC003	KH	Two Period Off-Peak Usage (%Q kWh x %I)
ENC003	KH	Two Period On-Peak Usage (%Q kWh x %I)
DMD001	K1	Wheeling Charge %Q
MSC001	EA	Additional Charge (with rate)
MSC001	EA	Additional Charge
DCS001	EA	After Hours Connection Charge
DCS001	EA	After Hours Connection Charge at Non Meter Base
ADJ002	EA	Area Light Charge Correction
MSC001	EA	Amount Transferred to Bankruptcy
ADJ002	EA	Budget Plan Correction
MSC001	EA	Budget Plan Ended
MSC001	EA	Retirement of capital credits
ADJ002	EA	Charitable Balance Adjustment
MSC001	EA	Change on Effective Date Fee
MSC001	EA	Change principal amount of loan
DCS001	EA	Connection Charge at Non-Meter Base
ADJ002	EA	Bill Correction
ADJ002	EA	Community Solar Adjustment
DCS001	EA	Connection Charge
MSC001	EA	Customer Courtesy Credit
MSC001	EA	ESS Meter Test Charge
MSC001	EA	Deposit Interest Applied
DAB003	EA	Deposit Applied
MSC001	EA	Payment Agreement Down Payment
ADJ002	EA	Time Payment Arrangement Correction
MSC001	EA	Drop Fee
MSC001	EA	ESS Bills All - Billing Credit

MSC001	EA	EDI Testing Fee
MSC001	EA	EIS Training
MSC001	EA	EIS Set Up Fee
ADJ002	EA	Electric Charge Correction
MSC001	EA	Enrollment
MSC001	EA	Usage Recovery Charge
MSC001	EA	ESS Registration Fee
MSC001	EA	Electric vehicle charge event
MSC001	EA	Field Service Charge
MSC001	EA	Appliance repair service charge
MSC001	EA	Historical Usage Request Fee
LPC001	EA	Late Payment Charge
MSC001	EA	Monthly SPO Voucher
MSC001	EA	Meter Tamper Charge
MSC001	EA	Meter Test Charge
MSC001	EA	Meter Verification Fee
MSC001	EA	Wind Net Metering Charge
MSC001	EA	Net Metering Transfer
MSC001	EA	NEST Rush Hour Rewards
ADJ002	EA	Net Transfer Adjustment
RTC001	EA	Non-Sufficient Funds Fee
CRE001	EA	Non-sufficient Funds Fee Reversal
MSC001	EA	Payment Arrangement Balance Unpaid
CRE001	EA	Penalty Fee Reversal
ADJ002	EA	Prepaid current balance adjusted
MSC001	EA	Prepaid payment request
MSC001	EA	Pulse Meter Fee
MSC001	EA	Program Rebate
MSC001	EA	Credit Balance Refund
MSC001	EA	Relocation Fee
ADJ002	EA	Renewable Charge Correction
MSC001	EA	Renewables Self Direction Refund
MSC001	EA	Credit balance to be refunded by check (1099)
MSC001	EA	Prepay Automatic Payment Current=0
MSC001	EA	Overpayment
MSC001	EA	Payment Returned
MSC001	EA	Solar Payment Option Refund
ADJ002	EA	Real Time Pricing Correction
CRE001	EA	Returned Payment Fee Reversal
MSC001	EA	Membership fee
MSC001	EA	Membership fee
ADJ002	EA	SPO Credit Adjustment
ADJ002	EA	Street Light Charge Correction
MSC001	EA	Switch Supplier Charge
ADJ002	EA	Net True-Up Adjustment

ADJ002	EA	SPO True-Up Adjustment (215)
ADJ002	EA	SPO True-Up Adjustment (216)
MSC001	EA	Unauthorized Connection Charge
MSC001	EA	Transfer Amount
MSC001	EA	A/R transfer to service provider