Electronic Data Interchange

Implementation Guide

Last Updated 05/05/08

820

version 4010

820 Payment Order/Remittance Advice

Best Practices

Global Best Practices

Use of Text Segments
The UIG recommends that the note (NTE) segment be avoided because this segment is not machine-readable. Other text segments, such as MSG and PID may be used if their use will lead to machine processable information in subsequent applications.

Use of ZZ Qualifier
The use of data fields to transmit un-coded or textual information should be avoided. This practice is usually associated with the use of the ZZ qualifier as a normal course of doing business.

997 – Functional Acknowledgment
The purpose of the 997 is to verify receipt of a transmitted document only, not the acceptance of the document.

Interchange Control Number
A unique and sequential interchange control number should be used on every envelope that is transmitted to a trading partner. This approach will allow the receiver to audit the interchange for any duplicate or missing transmissions.

Use of Dun & Bradstreet (DUNS) Number
Dun & Bradstreet assigns a nine-digit identification number to every business entity. This number, known as the DUNS number, should be used to identify the trading partners. A trading partner may append a four-digit suffix to the DUNS number to uniquely identify a specific location within the entity; this number is referred to as a DUNS + 4 number.

Banking Transactions
Guidelines that outline the use of transactions relating to interactions between a sender and the sender's financial institution are available from the Bankers EDI Council and the NACHA EDI Council. Other publications that address the use of financial payment transactions include Technical Report 1 (TR1) and Technical Report 2 (TR2); both of these publications are available from DISA.

Capitalization
The use of all upper case (capital) letters is mandatory.

Document-Specific Best Practices

General Usage
The specific elements and qualifiers used in the BPR segment must be discussed and agreed to by the originating payer and the payer's financial institution prior to using this transaction.

Values in Element BPR02
The amount shown in BPR02 is the algebraic sum of all of the RMR04 amounts. The rules of the Automated Clearing House (ACH) system mandate that the BPR02 amount must always be positive. If the originator intends for this transaction to be routed via the ACH network, the amount in BPR02 should be validated.

Use of the TRN Segment
The UIG recommends the use of the TRN (Trace) segment, especially if the payment order and remittance information are not contained in the same 820.

PACIFIC GAS AND ELECTRIC CONTACT INFORMATION

Pacific Gas and Electric's Value Added Network: GXS, 1-800-334-2255

PG&E's Transmit and Receive time: Tuesday through Saturday at 6 a.m. - 8 a.m.

Pacific Gas and Electric's Contact: Barbara Lawrence
Senior EDI Project Manager
415-973-6678 (Office)
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PG&E utilizes ANSI X12 version 004010 following the Utility Industry Guideline (**UIG**) for 004010. In some instances, code values from later versions of the standards have been incorporated. This document is subject to change based upon future UIG approved standards and regulatory mandates.

Summary of Changes

March 6, 2003	Added two new examples of 820 Payment/Remittance Order Examples for Bundled Customers and for ESP Consolidated Billers.
	Added the REF Segment in the Heading Level. Also added the REF Segment in the Detail Level.
August 28, 2003	Added EDI 820 Payment/Remittance Order Example for Summary Bill Payment
February 23, 2005	Added Interchange Control Header, ISA Segment and GS Segment. Added Interchange Control Trailer, GE Segment and IEA Segment. Added REF|9V|SERVICE to REF Segment. Revised test samples to show REF|9V|SERVICE. Added DTM Segment. Added PER Segment.

EDI 820 Payment/Remittance Order Example

Bundled Service Customer Remittance Payment to PG&E by Account ID

ISA|00| |00| |01|043000261 |ZZ|00691287702B |990526|080
3|U|00401|000000043|0|P|~ ª
GS|RA|043000261|00691287702B|19990526|080336|43|X|004010 ª
ST|820|000000064 ª
BPR|X|1020.09|C|ACH|CTX|01|121108250|||1680274794||01|011001234|DA|0177822|19990520 ª
TRN|2|9U02141 ª
REF|TN|123456 ª
DTM|234|20050223 ª
DTM|097|20050222 ª
N1|PE|Pacific Gas and Electric|1|006912877 ª
N1|PR|CALIFORNIA|1|680274794 ª
ENT|1 ª
RMR|IV|7899567123||315.23 ª **(Customer Account ID in RMR02) (RMR Segment may be multiple)**
RMR|IV|1123456725||430.75 ª **(Customer Account ID in RMR02)**
RMR|IV|3456789221||19.76 ª **(Customer Account ID in RMR02)**
RMR|IV|4567890247||8.20 ª   **(Customer Account ID in RMR02)**
RMR|IV|9876123476||246.15 ª **(Customer Account ID in RMR02)**
SE|2558|000000064 ª
GE|1|43 ª
IEA|1|000000043 ª

EDI 820 Payment/Remittance Order Example

Bundled Service Customer Bill Payment to PG&E by Service ID

ISA|00| |00| |01|043000261 |ZZ|00691287702B |990526|080
3|U|00401|000000043|0|P|~ ª
GS|RA|043000261|00691287702B|19990526|080336|43|X|004010 ª
ST|820|000000064 ª
BPR|X|746.16|C|ACH|CTX|01|121108250|||1680274794||01|011001234|DA|0177822|19990520 ª
TRN|2|9U02141 ª
REF|TN|123456 ª
REF|9V|SERVICE ª
DTM|234|20050223 ª
DTM|097|20050222 ª
N1|PE|Pacific Gas and Electric|1|006912877 ª
N1|PR|CALIFORNIA|1|680274794 ª
REF|12|9087653421ª (Account ID in REF 02)
ENT|1 ª
RMR|IV|9087653005||41.30ª (Service Agreement ID in RMR02)
RMR|IV|**9087653010**||430.75ª **(Service Agreement ID in RMR02)**
RMR|IV|**9087653020**||19.76ª **(Service Agreement ID in RMR02)**
RMR|IV|**9087653030**||8.20ª   **(Service Agreement ID in RMR02)**
RMR|IV|**9087653040**||246.15ª **(Service Agreement ID in RMR02)**
SE|2558|000000064ª
GE|1|43ª
IEA|1|000000043ª

EDI 820 Payment/Remittance Order Example

ESP Consolidated Billers Payment to PG&E

ISA|00| |00| |01|043000261 |ZZ|00691287702B |990526|080
3|U|00401|000000043|0|P|~ª
GS|RA|043000261|00691287702B|19990526|080336|43|X|004010ª
ST|820|000000064ª
BPR|X|746.16|C|ACH|CTX|01|121108250|||1680274794||01|011001234|DA|0177822|19990520ª
TRN|2|9U02141ª
REF|TN|123456ª
REF|9V|SERVICEª
REF|12|9087653421ª (ESP Account ID in REF 02)
DTM|234|20050223ª
DTM|097|20050222ª
N1|BK|MELLONBANKª
PER|3A|ACH OPERATIONS|TE|412-555-5555|FX|412-555-5555
PER|EA|EDI OPERATIONS|412-555-5555|EM|EDI-MONITORING@MELLON.COM
N1|PE|Pacific Gas and Electric|1|006912877ª
N1|PR|CALIFORNIA|1|680274794ª
ENT|1ª
RMR|IV|7899567123||41.3ª (Customer Service Agreement ID in RMR02) (May contain multiple RMR Segments)
RMR|IV|1123456725||430.75ª (Customer Service Agreement Account ID in RMR02)
RMR|IV|3456789221||19.76ª (Customer Service Agreement Account ID in RMR02)
RMR|IV|4567890247||8.2ª   (Customer Service Agreement Account ID in RMR02)
RMR|IV|9876123476||246.15ª (Customer Service Agreement Account ID in RMR02)
SE|2558|000000064ª
GE|1|43ª
IEA|1|000000043ª

__EDI 820 Payment/Remittance Order Example

ESP Consolidated Billers Payment to PG&E By Account ID

ISA|00| |00| |01|043000261 |ZZ|00691287702B |990526|080
3|U|00401|000000043|0|P|~ ª
GS|RA|043000261|00691287702B|19990526|080336|43|X|004010 ª
ST|820|000000064 ª
BPR|X|746.16|C|ACH|CTX|01|121108250|||1680274794||01|011001234|DA|0177822|19990520 ª
TRN|2|9U02141 ª
REF|TN|123456 ª
REF|12|9087653421ª (ESP Account ID in REF 02)
DTM|234|20050223 ª
DTM|097|20050222 ª
N1|BK|MELLONBANK ª
PER|3A|ACH OPERATIONS|TE|412-555-5555|FX|412-555-5555
PER|EA|EDI OPERATIONS|412-555-5555|EM|EDI-MONITORING@MELLON.COM
N1|PE|Pacific Gas and Electric|1|006912877 ª
N1|PR|CALIFORNIA|1|680274794 ª
ENT|1 ª
**RMR|IV|7899567123||41.3ª (Customer Service Agreement ID in RMR02) (May contain multiple
RMR Segments)**
REF|5B|1234789897ª (Customer Service Agreement ID in REF5B)
RMR|IV|1123456725||430.75ª (Customer Service Agreement Account ID in RMR02)
REF|5B||9877654329 (Customer Service Agreement ID in REF5B)
RMR|IV|3456789221||19.76ª (Customer Service Agreement Account ID in RMR02)
REF|5B|4321789897ª (Customer Service Agreement ID in REF5B)
RMR|IV|4567890247||8.2ª   (Customer Service Agreement Account ID in RMR02)
REF|5B|1444789897ª (Customer Service Agreement ID in REF5B)
RMR|IV|9876123476||246.15ª (Customer Service Agreement Account ID in RMR02)
REF|5B|2222789897ª (Customer Service Agreement ID in REF5B)
SE|2558|000000064ª
GE|1|43ª
IEA|1|000000043ª

820 Payment Order/Remittance Advice

Functional Group ID=**RA**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Payment Order/Remittance Advice Transaction Set (820) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to make a payment, send a remittance advice, or make a payment and send a remittance advice. This transaction set can be an order to a financial institution to make a payment to a payee. It can also be a remittance advice identifying the detail needed to perform cash application to the payee's accounts receivable system. The remittance advice can go directly from payer to payee, through a financial institution, or through a third party agent.

Interchange Control Header:

Page	Position Number	Segment ID	Name	ANSI/UIG Required Description	PG&E Required Description	Maximum Usage	Loop Repeat	Notes and Comments
11	010	ISA	Interchange Control Header	M	M	1		
14	020	GS	Functional Group Header	M	M	1		

Heading:

Page	Position Number	Segment ID	Name	ANSI/UIG Required Description	PG&E Required Description	Maximum Usage	Loop Repeat	Notes and Comments
16	010	ST	Transaction Set Header	M	M	1		
17	020	BPR	Beginning Segment for Payment Order/Remittance Advice	M	M	1		
19	035	TRN	Trace	O	O	1		c1
20	050	REF	Reference Numbers	O	O	>1		c2
21	060	DTM	Date/Time Reference	O	O	>1		
			LOOP ID - N1				>1	
22	070	N1	Name	O	M	1		c3
23	120	PER	Administrative Communications Contact	O	O	>1		

Detail:

Page	Position Number	Segment ID	Name	ANSI/UIG Required Description	PG&E Required Description	Maximum Usage	Loop Repeat	Notes and Comments
			LOOP ID - ENT				>1	
24	010	ENT	Entity	O	M	1		c4
			LOOP ID - RMR				>1	
25	150	RMR	Remittance Advice Accounts Receivable Open Item Reference	O	M	1		c5
26	120	REF	Reference Numbers	O	O	>1		

Summary:

Page	Position Number	Segment ID	Name	ANSI/UIG Required Description	PG&E Required Description	Maximum Usage	Loop Repeat	Notes and Comments
27	010	SE	Transaction Set Trailer	M	M	1		

Interchange Control Trailer:

Page	Position Number	Segment ID	Name	ANSI/UIG Required Description	PG&E Required Description	Maximum Usage	Loop Repeat	Notes and Comments
28	030	GE	Functional Group Trailer	M	M	1		
29	040	IEA	Interchange Control Trailer	M	M	1		

Transaction Set Comments

1. The TRN segment is used to uniquely identify a payment order/remittance advice.

2. If paying at the Service Level on Summary Accounts the REF|9V is a mandatory field.

3. The N1 loop allows for name/address information for the payer and payee which would be utilized to address remittance(s) for delivery.

4. ENT09 may contain the payee's accounts receivable customer number.

5. Loop RMR is for items being paid.
The Interchange Control Header and Interchange Control Trailer is required if Trading Partner is submitting payment in EDI 820 format.

Segment:	**ISA** Interchange Control Header	
Position:	010	
Loop:		
Level:		
Usage:	Mandatory **(PG&E Mandatory Segment)**	
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:		
Notes:	Ex: ISA|00||00||01|043000261|ZZ|00691287702B|991015|0823|U|00401|000000333|0|P~ᵃ	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	ISA01	I01	**Authorization Information Qualifier**	M	ID 2/2
			Code to identify the type of information in the Authorization Information		
			00 No Authorization Information Present (No Meaningful Information in I02)		
M	ISA02	I02	**Authorization Information**	M	AN 10/10
			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	ISA03	I03	**Security Information Qualifier**	M	ID 2/2
			Code to identify the type of information in the Security Information		
			00 No Security Information Present (No Meaningful Information in I04)		
M	ISA04	I04	**Security Information**	M	AN 10/10
			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	ISA05	I05	**Interchange ID Qualifier**	M	ID 2/2
			Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified		
			01 Duns (Dun & Bradstreet)		
M	ISA06	I06	**Interchange Sender ID**	M	AN 15/15
			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	ISA07	I05	**Interchange ID Qualifier**	M	ID 2/2
			Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified		
			ZZ Mutually Defined		
M	ISA08	I07	**Interchange Receiver ID**	M	AN 15/15
			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	ISA09	I08	**Interchange Date**	M	DT 6/6
			Date of the interchange		

M	ISA10	I09	**Interchange Time**	M	TM 4/4

Time of the interchange

M	ISA11	I10	**Interchange Control Standards Identifier**	M	ID 1/1

Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer
Refer to 004010 Data Element Dictionary for acceptable code values.

M	ISA12	I11	**Interchange Control Version Number**	M	ID 5/5

This version number covers the interchange control segments

	00303	Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1992
	00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997

M	ISA13	I12	**Interchange Control Number**	M	N0 9/9

A control number assigned by the interchange sender

M	ISA14	I13	**Acknowledgment Requested**	M	ID 1/1

Code sent by the sender to request an interchange acknowledgment (TA1)

	0	No Acknowledgment Requested

M	ISA15	I14	**Usage Indicator**	M	ID 1/1

Code to indicate 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	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:	020	
Loop:		
Level:		
Usage:	Mandatory **(PG&E Mandatory Segment)**	
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.
Notes:	Ex: GS|RA|045000234|00491282205B|990715|130510|43|X|004010ª	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	GS01	479	**Functional Identifier Code**	M	ID 2/2
			Code identifying a group of application related transaction sets		
			FA	Functional Acknowledgement (997)	
			GE	General Request, Response or Confirmation (814)	
			IN	Invoice Information (810,819)	
			MO	Maintenance Service Order (650)	
			PT	Product Transfer and Resale Report (867)	
			RA	Payment Order/Remittance Advice (820)	
M	GS02	142	**Application Sender's Code**	M	AN 2/15
			Code identifying party sending transmission; codes agreed to by trading partners		
M	GS03	124	**Application Receiver's Code**	M	AN 2/15
			Code identifying party receiving transmission; codes agreed to by trading partners		
M	GS04	373	**Date**	M	DT 8/8
			Date expressed as CCYYMMDD		
M	GS05	337	**Time**	M	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
M	GS06	28	**Group Control Number**	M	N0 1/9
			Assigned number originated and maintained by the sender		
M	GS07	455	**Responsible Agency Code**	M	ID 1/2
			Code used in conjunction with Data Element 480 to identify the issuer of the standard		
			X	Accredited Standards Committee X12	
M	GS08	480	**Version / Release / Industry Identifier Code**	M	AN 1/12
			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 sub release, 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

    003030   Draft Standards Approved for Publication by ASC X12 Procedures Review Board Through October 1992

    004010   Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

                             PG&E requires version 4010.

Segment:	**ST** **Transaction Set Header**
Position:	010
Loop:	
Level:	Heading
Usage:	Mandatory **(PG&E Mandatory Segment)**
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:	
Notes:	Ex: ST*820*000000592^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**ST01**	**143**	**Transaction Set Identifier Code**	**M**	**ID 3/3**
			Code uniquely identifying a Transaction Set		
M	**ST02**	**329**	**Transaction Set Control Number**	**M**	**AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			A unique Number assigned to each transaction set within a functional group. This number must match the value in SE02.		

Segment:	**BPR** Beginning Segment for Payment Order/Remittance Advice	
Position:	020	
Loop:		
Level:	Heading	
Usage:	Mandatory **(PG&E Mandatory Segment)**	
Max Use:	1	
Purpose:	(1) To indicate the beginning of a Payment Order/Remittance Advice Transaction Set and total payment amount or (2) to enable related transfer of funds and/or information from payer to payee to occur	

Syntax Notes:	1	If either BPR06 or BPR07 is present, then the other is required.
	2	If BPR08 is present, then BPR09 is required.
	3	If either BPR12 or BPR13 is present, then the other is required.
	4	If BPR14 is present, then BPR15 is required.
Semantic Notes:	1	BPR02 specifies the payment amount.
	2	When using this transaction set to initiate a payment, BPR06 through BPR16 may be required, depending on the conventions of the specific financial channel being used. BPR06 and BPR07 relate to the originating depository financial institution (ODFI).
	3	BPR12 and BPR13 relate to the receiving depository financial institution (RDFI).
	4	BPR15 is the account number of the receiving company to be debited or credited with the payment order.
	5	BPR17 is a code identifying the business reason for this payment.
Comments:	1	BPR09 is the account of the company originating the payment. This account may be debited or credited depending on the type of payment order.
Notes:		Ex: BPR*X*170018.05*C*DXC*CTX*01*031100267*DA*6301421230509*063838700**01*091000022*DA*4246044555500069*930322^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	BPR01	305	**Transaction Handling Code**	**M**	**ID 1/1**
			Code designating the action to be taken by all parties		
			X	Handling Party's Option to Split Payment and Remittance	
			C	Payment and Remittance	
M	BPR02	782	**Monetary Amount**	**M**	**R 1/15**
			Monetary amount		
			Total amount of payment		
M	BPR03	478	**Credit/Debit Flag Code**	**M**	**ID 1/1**
			Code indicating whether amount is a credit or debit		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
M	BPR04	591	**Payment Method Code**	**M**	**ID 3/3**
			Code used to designate the actual funds transfer method.		
			PG&E's preference is to process ACH credits and payments utilizing the CTX payment format. This format transmits the funds transfer and the 820 remittance data together through the ACH system.		
			ACH	Automated Clearing House (ACH)	
R	BPR05	812	**Payment Format Code**	**O**	**ID 1/10**
			Code identifying the payment format to be used		
			CCD	Cash Concentration/Disbursement (CCD) (ACH)	
			CCP	Cash Concentration/Disbursement plus Addenda (CCD+) (ACH)	
			CTX	Corporate Trade Exchange (CTX) (ACH)	
			PPD	Prearranged Payment and Deposit (PPD+) (ACH)	

BPR06	**506**	**(DFI) ID Number Qualifier**		**X**	**ID 2/2**

Code identifying the type of identification number of Depository Financial Institution (DFI)

01	ABA Transit Routing Number Including Check Digits (9 digits)

BPR07	**507**	**(DFI) Identification Number**		**M**	**AN 3/12**

Depository Financial Institution (DFI) identification number

Customer Bank Routing Number

BPR08	**896**	**Account Number Qualifier Code**		**O**	**ID 2/2**

Code indicating type of bank account or other financial asset

01	Time Deposit
DA	Demand Deposit

BPR09	**508**	**Account Number**		**X**	**AN 1/35**

Account number assigned

Customer Bank Account Number

BPR10	**509**	**Originating Company Identifier**		**M**	**AN 10/10**

A unique identifier designating the company initiating the funds transfer instructions. The first character is one-digit ANSI identification code designation (ICD) followed by the nine-digit identification number which may be an IRS employer identification number (EIN), data universal numbering system (DUNS), or a user assigned number; the ICD for an EIN is 1, DUNS is 3, user assigned number is 9

Customer ID

BPR12	**506**	**(DFI) ID Number Qualifier**		**X**	**ID 2/2**

Code identifying the type of identification number of Depository Financial Institution (DFI)

01	ABA Transit Routing Number Including Check Digits (9 digits)

BPR13	**507**	**(DFI) Identification Number**		**X**	**AN 3/12**

Depository Financial Institution (DFI) identification number

PG&E Bank Routing Number

BPR14	**896**	**Account Number Qualifier Code**		**O**	**ID 2/2**

Code indicating type of bank account or other financial asset

DA	Demand Deposit

BPR15	**508**	**Account Number**		**M**	**AN 1/35**

Account number assigned

PG&E Bank Account Number

BPR16	**513**	**Effective Entry Date**		**O**	**DT 8/8**

Date the originating company intends for the transaction to be settled.

Payer's intended settlement date

Segment:	**TRN** Trace	
Position:	035	
Loop:		
Level:	Heading	
Usage:	Optional **(PG&E Optional Segment)**	
Max Use:	1	
Purpose:	To uniquely identify a transaction to an application	
Syntax Notes:		
Semantic Notes:	**1** TRN02 provides unique identification for the transaction.	
	2 TRN03 identifies an organization.	
	3 TRN04 identifies a further subdivision within the organization.	
Comments:		
Notes:	Ex: TRN|2|9U02141[a]	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	TRN01	481	**Trace Type Code**	**M ID 1/2**
			Code identifying which transaction is being referenced	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	TRN02	127	**Reference Number**	**M AN 1/30**
			Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	

Segment:	**REF** Reference Numbers
Position:	050
Loop:	
Level:	Heading
Usage:	Optional **(PG&E Optional Segment)**
Max Use:	>1
Purpose:	To specify identifying numbers.
Syntax Notes:	1 At least one of REF02 or REF03 is required.
Semantic Notes:	
Comments:	
Notes:	Ex: REF|TN|00000005ᵃ

Data Element Summary

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

Code qualifying the Reference Number.

9V		Payment Category
12		Billing Account ID for the ESP
		Account number under which billing is rendered
TN		Transaction Reference Number
		Trace Number
		Utility-assigned account ID number for the ESP (Primary Key).

	Ref. Des.	Data Element	Name	Attributes
	REF02	127	Reference Number	X AN 1/30

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Customer supplied Account Descriptive (Customer supplied information to PG&E that is desired in the invoice).

Control Number generated by accounts payable system

When paying at the Service Agreement Level, please utilize the word "SERVICE"

Segment:	**DTM** Date/Time Reference
Position:	180
Loop:	RMR
Level:	Detail:
Usage:	Optional **(PG&E Optional Segment)**
Max Use:	>1
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	

Data Element Summary

Must Use	Ref. Des.	Data Element	Name		Attributes
Must Use	DTM01	374	**Date/Time Qualifier**		M ID 3/3
			Code specifying type of date or time, or both date and time		
			003	Invoice	
			035	Delivered	
			097	Transaction Creation Date	
			173	Week Ending	
			174	Month Ending	
			193	Period Start	
			194	Period End	
			214	Date of Repair/Service	
			234	Settlement Date	
			809	Posted	
	DTM02	373	**Date**		X DT 8/8
			Date expressed as CCYYMMDD		
			Use of DTM02/03 allows the translator to validate date and time.		
	DTM05	1250	**Date Time Period Format Qualifier**		X ID 2/3
			Code indicating the date format, time format, or date and time format		
			D8	Date Expressed in Format CCYYMMDD	
	DTM06	1251	**Date Time Period**		X AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times		

Segment:	**N1** Name	
Position:	070	
Loop:	N1 Optional	
Level:	Heading	
Usage:	Optional **(PG&E Mandatory Segment)**	
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.	
Notes:	Ex: N1|BY|CUSTOMER NAMEª N1|PR|PAYER NAMEª N1|PE|PAYEE NAMEª	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N101	98	**Entity Identifier Code**	**M ID 2/2**
			Code identifying an organizational entity, a physical location, or an individual	
			8S Consumer Service Provider	
			This is the Utility.	
			AG Agent/Agency	
			PE Payee	
			Required for PG&E	
			PR Payer	
			Required for PG&E	
	N102	93	**Name**	**X AN 1/35**
			Free-form name	
			Customer Name	

Segment:	**PER** Administrative Communications Contact	
Position:	120	
Loop:	N1	
Level:	Heading:	
Usage:	Optional **(PG&E Optional Segment)**	
Max Use:	>1	
Purpose:	To identify a person or office to whom administrative communications should be directed	
Syntax Notes:	1 If either PER03 or PER04 is present, then the other is required.	
	2 If either PER05 or PER06 is present, then the other is required.	
	3 If either PER07 or PER08 is present, then the other is required.	
Semantic Notes:		
Comments:		

Data Element Summary

Must Use	Ref. Des.	Data Element	Name		Attributes
Must Use	**PER01**	366	**Contact Function Code**	**M**	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named		
			3A Automated Clearinghouse Operations		
			EA EDI Operations		
			IC Information Contact		
	PER02	93	**Name**	**O**	**AN 1/60**
			Free-form name		
	PER03	365	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
			EM Electronic Mail		
			FX Facsimile		
			TE Telephone		
	PER04	364	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable		
	PER05	365	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
			EM Electronic Mail		
			FX Facsimile		
			TE Telephone		
	PER06	364	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable		
	PER07	365	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
			EM Electronic Mail		
			FX Facsimile		
			TE Telephone		
	PER08	364	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable		

Segment:	**ENT** Entity	
Position:	010	
Loop:	ENT Optional	
Level:	Detail	
Usage:	Optional **(PG&E Mandatory Segment)**	
Max Use:	1	
Purpose:	To designate the entities which are parties to a transaction and specify a reference meaningful to those entities	
Syntax Notes:	1	If any of ENT02 ENT03 or ENT04 is present, then all are required.
	2	If any of ENT05 ENT06 or ENT07 is present, then all are required.
	3	If either ENT08 or ENT09 is present, then the other is required.
Semantic Notes:		
Comments:	1	This segment allows for the grouping of data by entity/entities at or within a master/masters. A master (e.g., an organization) can be comprised of numerous subgroups (e.g., entities). This master may send grouped data to another master (e.g., an organization) which is comprised of one or more entities. Groupings are as follows: (1) Single/Single: Only ENT01 is necessary, because there is a single entity (the sending master) communicating with a single entity (the receiving master). (2) Single/Multiple: ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. The sending master is a single entity, so no other data elements need be used. (3) Multiple/Single: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. The receiving master is a single entity, so no other data elements need be used. (4) Multiple/Multiple: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. This segment also allows for the transmission of a unique reference number that is meaningful between the entities.
Notes:	Ex: ENT|1ª	

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
ENT01	**554**	**Assigned Number**	**O**	**N0 1/6**
		Number assigned for differentiation within a transaction set		
		Sequential number to group payments		

Segment:	**RMR** Remittance Advice Accounts Receivable Open Item Reference
Position:	150
Loop:	RMR Optional
Level:	Detail
Usage:	Optional **(PG&E Mandatory Segment)**
Max Use:	1
Purpose:	To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail
Syntax Notes:	**1** If RMR02 is present, then RMR01 is required.
Semantic Notes:	**1** If RMR03 is present, it specifies the open item(s) to be included in the cash application.
Comments:	**1** Parties using this segment should agree on the content of RMR01 and RMR02 prior to initiating communication.
	2 If RMR03 is not present, the item referenced in RMR02 is to be included in the cash application.
	3 RMR04 is the amount paid.
	4 RMR05 may be needed by some payees to distinguish between duplicate reference numbers.
	5 RMR06 may be used to specify discount taken.
Notes:	Ex: RMR|IV|RJR2010661980103||170018.05ª

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
RMR01	**128**	**Reference Number Qualifier**	**X**	**ID 2/2**
		Code qualifying the Reference Number.		
		11	Account Number	
			Number identifies a telecommunications industry account	
			Energy Service Provider (ESP) - assigned account number for the end use customer.	
		12	Billing Account	
			Account number under which billing is rendered	
			Utility-assigned account number for the end use customer. PG&E GEN ID.	
		IV	Seller's Invoice Number	
			PG&E requires this Reference Number Qualifier	
RMR02	**127**	**Reference Number**	**M**	**AN 1/30**
		Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.		
		PG&E Account Number		
RMR04	**782**	**Monetary Amount**	**M**	**R 1/15**
		Monetary amount		
		Invoice amount paid		

Segment:	**REF** Reference Identification		
Position:	120		
Loop:	IT1 Optional		
Level:	Detail		
Usage:	Optional **(PG&E Optional Segment)**		
Max Use:	>1		
Purpose:	To specify identifying information		
Syntax Notes:	1 At least one of REF02 or REF03 is required.		
Semantic Notes:			
Comments:			
Notes:	Ex: REF*MG*3065R3^ REF*NH*E19S V^		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
			5B Service Agreement ID	
			CR Direct Access XREF ID	
	REF02	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Meter Number or Account Number if un-metered Rate Code	

Segment:			**SE** **Transaction Set Trailer**	
Position:			010	
Loop:				
Level:			Summary	
Usage:			Mandatory **(PG&E Mandatory Segment)**	
Max Use:			1	
Purpose:			To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).	
Syntax Notes:				
Semantic Notes:				
Comments:			**1** SE is the last segment of each transaction set.	
Notes:			Ex: SE|23|000000592ª	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	SE01	96	**Number of Included Segments**	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	**Transaction Set Control Number**	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			Same as corresponding ST02	

Segment:	**GE** **Functional Group Trailer**	
Position:	030	
Loop:		
Level:		
Usage:	Mandatory **(PG&E Mandatory Segment)**	
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.
Notes:	Ex: GE|1|43ª	

Data Element Summary

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

Segment:	**IEA** Interchange Control Trailer	
Position:	040	
Loop:		
Level:		
Usage:	Mandatory **(PG&E Mandatory Segment)**	
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:		
Notes:	Ex: IEA|1|00000123ª	

Data Element Summary

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