
From: Precht, Phillip R
Sent: Wednesday, December 05, 2007 8:17 AM
To: Rager,Denise; naesb@naesb.org
Cc: Kiselewich, Ruth C; Welzant, William J; Wolf, William J
Subject: RE: Request for Informal Comments on Open Issues on Customer Billing and Payment Technical Implementation business practices - Comments Due December 31, 2007

On behalf of Baltimore Gas and Electric Company in both the REQ and RGQ, I offer the following comments --

I won't even begin to say that I understand EDI. However, from what I've learned, I agree that the historical usage, bar charts, and bill messages do not need to be included in an electronic invoice. While Maryland regulations require the utility to provide certain information (such as historical usage), BGE has received a waiver from the Public Service Commission of Maryland from certain of these requirements when issuing an EDI bill for non-residential customers. If later needed, the information will be provided through a special request.

For reference, I have attached BGE's EDI Implementation Guidelines for Receiving 810 Invoice and for Sending ACH and EDI-820 Payment / Remittances.

Phil Precht
Management Consultant, Pricing & Regulatory Services
Baltimore Gas and Electric Company

From: Rager,Denise [mailto:drager@naesb.org]
Sent: Friday, November 16, 2007 4:22 PM
Subject: Request for Informal Comments on Open Issues on Customer Billing and Payment Technical Implementation business practices - Comments Due December 31, 2007

via posting and email

TO: NAESB Retail Electric Quadrant (REQ) Retail Gas Quadrant (RGQ) Members and Interested Industry Participants

CC: REQ/RGQ Business Practices Subcommittee distribution list; REQ/RGQ Information Requirements Subcommittee and Technical Electronic Implementation Subcommittee (IR/TEIS)

FROM: Retail IR/TEIS

RE: Request for Informal Comments on Open Issues on Customer Billing and Payment Technical Implementation business practices - **Comments Due December 31, 2007**

DATE: November 16, 2007

Dear REQ and RGQ Members:

An informal comment period begins today, November 16, 2007 and ends on December 31, 2007 for the following issues that have come up in the Retail IR/TEIS business practice development. The Retail IR/TEIS seeks comment on the following issue that has been identified in the drafting of the technical implementation business practices for Customer Billing and Payment:

Whether an electronic customer invoice should provide identical information as a paper customer invoice?

For example:

Historical usage including bar charts

Bill messages

The two companies participating in the November 16, 2007 conference call, Duke Energy and Southern Company, do not believe that the electronic customer invoice should provide identical information as a paper customer invoice.

Comments submitted will be reviewed by the Retail IR/TEIS during the January 8, 2008 conference call. Please return any comments you have on the document to the NAESB Office (naesb@naesb.org or 713-356-0067 fax) by **December 31, 2007**. If you have any questions or need further assistance, feel free to contact the NAESB Office at 713-356-0060.

Best Regards,

Laura B. Kennedy, NAESB

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EDI
Customer Bill Payment
Implementation
Guidelines

*For Sending ACH and EDI-820
Payment / Remittances*

Baltimore Gas and Electric Company Business to Business Service Bill Payment System

Baltimore Gas and Electric has implemented a Business-to-Business service bill payment system, **The Corporate Electronic Lockbox**, which enables BGE customers to pay service bills electronically. The system has been designed to accept customer bill payments using the National Automated Clearing House Association CIE, CCD+ or CTX payment formats. Wachovia Bank N. A. is the Receiving Depository Financial Institution (RDFI) for the Company.

By utilizing electronic capabilities, we are able to eliminate the time consuming tasks involved in paying your corporate utility bills - reducing paperwork expenses, and inconvenience for your company.

To take advantage of our **Corporate Electronic Lockbox**, follow the steps of our Implementation Checklist, below.

Implementation Checklist

Initial Set-up

1. Have BGE validate your company's 10-digit BGE account numbers.

Payment Initiation

1. Only credits may be initiated to BGE's depository account. Credits to BGE's account must be made using the CIE, CCD+ or CTX formats for ACH (Automated Clearing House) specifications.
2. Please do not include any dashes or spaces when inputting BGE's 10 digit account number. BGE bills do not include invoice numbers that change from month to month. Rather, they include BGE's 10 digit customer account number, which remains constant.
3. All payments will be made directly to BGE's depository account:

Receiving Bank : Wachovia Bank N. A.

Help Desk : 800.590-7868 ext 652 followed by Janice Newell 70148

Receiving Bank ABA Number : 055003201
Bank Account Number : 2044003973059
4. Electronic bill payments using either the CIE(consumer payments) or CCD+ (corporate payments) ACH specification can be used to pay only a single BGE bill.
5. Electronic bill payments using the CTX ACH specification may be used to pay single or multiple BGE bills.
6. The CCD+ addenda record (Record Type Code 7, Addenda Type Code 5) format must be as follows starting in the Payment Related Information - free form field (positions 04-83):

RMR*IV*(insert BGE account number)**(insert amount)
7. The CTX addenda record(s) (Record Type Code 7, Addenda Type Code 5) format must be ANSI compliant, using the X.12 - 820 EDI file structure. Baltimore Gas and Electric Company's preferred x.12-820 layout is attached as page 4 of this document. BGE uses ANSI X.12 version3, release4 (003040).

If you have any questions regarding the **Corporate Electronic Lockbox** or the implementation steps, please call BGE's Revenue Processing 410-470-1132. or Revenue @BGE.com.

BALTIMORE GAS AND ELECTRIC COMPANY
PREFERRED SPECIFICATIONS FOR EDI X.12-820
CUSTOMER PAYMENTS

(SAMPLE DATA)

ISA Segment

GS Segment

ST*820* 1\

BPR*X*TOTAL DOLLAR AMOUNT*C*ACH*CTX*01*ORIGINATOR BANK ID
*DA*ACCOUNT NUMBER*ORIGINATING COMPANY ID **01*055003201
*DA*2044003973059*DATE\

N1*PR*PAYER\

PER*RP**RESPONSIBLE PERSON NAME*TE*TELEPHONE NUMBER

N1*PE*PAYEE\

ENT*1\

RMR*IV*INVOICE NUMBER**AMOUNT\

REF*ZZ*ADDITIONAL INFORMATION (OR USE THE PER SEGMENT)

START OVER FROM RMR SEGMENT

SE*TOTAL NUMBER SEGMENTS INCLUDING ST&SE*1\

GE Segment

IEA Segment

ASC X12 Structure: Transaction Set Specifications

Introduction:

To allow for transmissions of different types of transaction sets from one trading partner to another in the same transmission, a hierarchy structure of headers and trailers is used. This structure allows the data to be segregated logically for easy interpretation by the receiver. A brief description of the records in the ASC X12 structure is reviewed below:

ISA

Interchange Control Header - The Interchange Control Header is the beginning outer envelope of one or more functional Groups or interchange-related control segments. This header contains the value of the data element separators, data segment terminators, the identifier of the sender and receiver and the required authorization and security information.

GS

Functional Group Header - The Functional Group Header provides the required control information such as date, time and control number of the transmission as well as the value for the ANSI version that the two trading partners are utilizing.

ST

Transaction Set Header - The Transaction Set Header establishes the transaction set that is used in the transmission. This transaction set identifies to all parties the type of information that will follow in the identified segment.

SE

Transaction Set Trailer - The Transaction Set Trailer ends the transaction set and provides the count of the transmitted segments.

GE

Functional Group Trailer - The Functional Group Trailer ends the transaction-related information or data within the boundaries of the ST header and SE trailer.

IEA

Interchange Control Trailer - The Interchange Control Trailer is the ending outer envelope of one or more functional groups or interchange-related control segments. This trailer contains the number of the functional groups and the established control number identified in the ISA.

820 Payment Order / Remittance Advice

This standard provides the format and establishes the data contents of a payment order / remittance advice transaction set. The payment order / remittance advice transaction set provides for payment, remittance advice, or both. This format supports ANSI X12 Release 003040.

820 Payment Order / Remittance Advice Segment Summary

Sequence Number	Segment ID	Segment Name	Requirement
	ISA	Interchange Control Header	Mandatory
	GS	Functional Group Header	Mandatory
010	ST	Transaction Set Header	Mandatory
020	BPR	Beginning Segment for Payment Order / Advice	Mandatory
060	DTM	Date / Time Reference	Mandatory
070	N1	Name	Mandatory
150	RMR	Remittance Advice	Mandatory
010	SE	Transaction Set Trailer	Mandatory
	GE	Functional Group Trailer	Mandatory
	IEA	Interchange Control Trailer	Mandatory

820 Payment Order Detail

ISA Segment: Interchange Control Header

Purpose: To start and identify an interchange of one or more functional groups and interchange-related control segments.

General Information: This segment is mandatory. It contains the value of the data element separators, data segment terminators, the identify of the sender and receiver and the required authorization and security information.

Example:
 ISA*00* 00* ZZ*YOURID*ZZ*BGETESTWEH*950331*0915*U*003040*0001*0*T*

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
ISA01	I01	Auth. Information Qual	Req.	“00”
ISA02	I02	Auth. Information	Req.	All Spaces
ISA03	I03	Security Info. Qual.	Req.	“00”
ISA04	I04	Security Information	Req.	All Spaces
ISA05	I05	Interchange ID Qual.	Req.	Trading Partner Defined
ISA06	I06	Interchange Sender ID	Req.	Your Interchange ID
ISA07	I05	Interchange ID Qual.	Req.	Test - “ZZ” Prod - “01”
ISA08	I07	Interchange Receiver ID	Req.	Test - BGETEST__ (3 initials) Prod - “156171464” (BGE DUNS)
ISA09	I08	Date	Req.	Creation Date (YYMMDD)
ISA10	I09	Time	Req.	Creation Time. Time in 24-hour as follows: HHMM, or HHMMSS, etc
ISA11	I10	Interchange Cntrl. Stnds. Code	Req.	“U”
ISA12	I11	Interchange Version ID	Req.	“00304”
ISA13	I12	Interchange Control No.	Req.	Sequential Number
ISA14	I13	Acknowledgment Requested	Req.	“0” (No) “1” (Yes)
ISA15	I14	Test Indicator	Req.	“T” (Test) “P” (Production)
ISA16	I15	Sub Element Separator	Req.	Hex “3A”

GS Segment: Functional Group Control Header

Purpose: To indicate the beginning of a functional group and to provide control information.

General Information: This segment is mandatory. It contains the required control information such as date, time and control number of the transmission as well as the value for the ANSI version that the two trading partners are utilizing.

Example:

GS*IN*CLBILL*SENDER*950331*0830*001*X*003040*

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
GS01	479	Functional ID Code	Req.	"IN"
GS02	142	Application Sender's Code	Req.	Code identifying party sending transmission. Codes agreed to by trading partners.
GS03	124	Application Receiver's Code	Req.	Code identifying party receiving transmission. Codes agreed to by trading partners.
GS04	373	Date	Req.	Date (YYMMDD)
GS05	337	Time	Req.	Time. Expressed in 24-hour time as follows: HHMM, or HHMMSS,etc.
GS06	28	Group Control Number	Req.	Assigned number originated and maintained by the sender. Must be identical to GE02
GS07	455	Responsible Agency Code	Req.	"X" = X12 Standards
GS08	480	Version / Release	Req.	"003040" = X12 Version / Release

ST Segment: Transaction Set Control Header

Purpose: To indicate the start of a transaction set and to assign a control number.

Example:
ST*820*0001*

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
ST01	143	Transaction Set ID	Req.	"820"
ST02	329	Transaction Set Control No.	Req..	Identifying control number that must be unique within the transaction set functional group. Assigned by the originator for a transaction set.

BPR Segment: Beginning Segment for Payment Order / Remittance Advice

Purpose: To indicate the beginning of a payment order / remittance advice transaction set and total payment and to enable related transfer of funds from payor to payee to occur while utilizing an automated clearing house (ACH) or other banking network

Example:
BPR*X*47414.05*C*ACH*CTX*01*063000021*DA*052000016*DA*01

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
BPR01	305	Transaction Handling Code	Req.	Code designating the action taken by all parties. "D" - Make payment Only (CIE Payments). "X" - Option to split payments + remittance (Multiple Payments).
BPR02	782	Monetary Amount	Req..	Monetary Amount
BPR03	478	Credit / Debit Flag Code	Req.	"C" - Credit "D" - Debit
BPR04	591	Payment Method Code	Req.	Code used to designate the actual funds transfer method - "ACH"
BPR05	812	Payment Format Code	Opt.	Code identifying the payment format to be used - "CCD+", CTX, CBC - Consumer Check

BPR06	506	(DFI) ID Number Qualifier	Req.	Code identifying Depository Financial Institution - "01" = ABA Transit Routing Number
BPR07	507	(DFI) ID Number	Req.	Depository Financial Institution (Payer's Transit Routing Number)
BPR08	896	Account Number Qualifier Code	Opt.	Code indicating type of bank account - "DA" = Demand Deposit
BPR09	508	Account Number	Req.	Account Number of the Payer
BPR10	509	Originating Company ID	Opt.	Unique identifier designating the company initiating the funds transfer instructions
BPR11	510	Originating Co. Supplemental Code	Opt.	Code defined between the originating company and the ODFI that uniquely identifies the company initiating the transfer

DTM Segment: Date / Time Reference

Purpose: To specify pertinent dates and times

Example:
DTM*007*960330*1125

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
DTM01	374	Date / Time Qualifier	Req.	Code specifying type of date or time (007 = Effective date)
DTM02	373	Date	Req..	Date (YYMMDD)

N1 Segment: Name

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

Example:
N1*PR*HARRIS PAT*ZZ*0404752012

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
N101	98	Entity ID Code	Req.	Code identifying an organizational entity or a physical location
N102	93	Name	Req..	Free-form Name
N103	66	ID Qualifier Code	Req.	Code designating the system / method of code structure used for ID code
N104	67	ID Code	Req.	Code identifying a party

RMR Segment: Remittance Advice Accounts Receivable Open Item Reference

Purpose: To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail

Example:
RMR*CR*1234567890**6218.42

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
RMR01	128	Reference Number Qualifier	Req.	Code qualifying the reference number (CR = credit, OI = originating invoice)
RMR02	127	Reference Number	Req..	BGE's 10 digit Customer Account Number
RMR04	782	Monetary Amount	Req.	Monetary Amount

Notes: If this is a pay by phone customer, the RMR01 contains a CR for a credit. If this is a CTP type payment, the RMR01 contains a OI for originating invoice. A CTP payment type repeats the RMR02 and RMR04 segments for each customer account and money credited to that account.

SE Segment: Transaction Set Trailer Summary Level

Purpose: To indicate the end of the transaction set and provide the count of transmitted segments (including the beginning (ST) and ending (SE) segments).

Example:

SE*500*00001*

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
SE01	96	Number of Included Segments	Req.	Total number of segments included in a transaction set including ST and SE segments.
SE02	329	Transaction Set Control Number	Req.	Identifying control number assigned by the originator for a transaction set. Must match number assigned in "ST02"

GE Segment: Functional Group Trailer Level

Purpose: To indicate the end of a functional group and to provide control information.

Example:
GE*1*150*

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
GE01	97	Number of Transaction Sets Included	Req.	Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.
GE02	28	Group Control Number	Req.	Must be identical to the same data element in the associated Functional Header GS06

IEA Segment: Interchange Control Trailer Level

Purpose: To define the end of an interchange of one or more functional groups and interchange-related control segments.

Example:
IEA*1*500*

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
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IEA01	I16	Number of Included Functional Groups	Req.	A count of the number of functional groups included in a transmission.
IEA02	I12	Interchange Control Number	Req.	This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver.. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.



Baltimore Gas & Electric

**EDI
Implementation
Guidelines**

*For Receiving 810 Invoice
(G&E Bills)*

June 2004



EDI Profile Information

January, 2002

Network:	COMMERCE: Network
Network Contact:	(614) 793-7000
Interchange Header Option:	ISA
Document Version:	004010
GS (Sender or Receiver) code:	156171464 (BGE Duns Number - Production)
<u>Acknowledgment Options:</u>	
Group or Trans.:	T (Group / Transaction); For testing purposes, Use Segment Level Acknowledgments
Errors:	Y (Y/N) Re-transmission; Increment to the next ISA and GS control number
Interchange Version	00200
Element Separator:	Hex 2A (*)
Subelement Separator:	Hex 3E (>)
Segment Terminator:	Hex 15 <NAK> ^U
Interchange ID Qual:	01
Interchange Sender ID (DUNS)	156171464
Control Standards Identifier:	X (X12 ANSI Standard)



EDI Contact List

April, 2004

EDI Business Administration Contacts:

BGE EDI Business Coordinator

GeneralBusinessService@constellation.com

Translator and Applications Software Support:

Technical Support - EDI Processing

utiloperations@gestalt-llc.com

Gestalt

Note:

Trading partners should first contact the BGE EDI Business Coordinator at GeneralBusinessService@constellation.com for questions related to EDI transaction set contents (business-related information or data). If the concern is ultimately of a technical nature, the business contact will notify our technical support team.

Introduction:

To allow for transmission of different types of transaction sets from one trading partner to another in the same transmission, a hierarchy structure of headers and trailers is used. This structure allows the data to be segregated logically for easy interpretation by the receiver. A brief description of the records in the ASC X12 structure is reviewed below:

ISA

Interchange Control Header - The Interchange Control Header is the beginning outer envelope of one or more functional Groups or interchange-related control segments. This header contains the value of the data element separators, data segment terminators, the identifier of the sender and receiver and the required authorization and security information.

GS

Functional Group Header - The Functional Group Header provides the required control information such as date, time and control number of the transmission as well as the value for the ANSI version that the two trading partners are utilizing.

ST

Transaction Set Header - The Transaction Set Header establishes the transaction set that is used in the transmission. This transaction set identifies to all parties the type of information that will follow in the identified segment.

SE

Transaction Set Trailer - The Transaction Set Trailer ends the transaction set and provides the count of the transmitted segments.

GE

Functional Group Trailer - The Functional Group Trailer ends the transaction-related information or data within the boundaries of the ST header and SE trailer.

IEA

Interchange Control Trailer - The Interchange Control Trailer is the ending outer envelope of one or more functional groups or interchange-related control segments. This trailer contains the number of the functional groups and the established control number identified in the ISA.

810 Invoice Utility to Customer Specifications

This standard provides the format and establishes the data contents of an invoice transaction set. The invoice transaction set provides for customary and established business practice relative to the detailed statement of charges due for utility services. This format supports the ANSI X12 Version 004010.

810 Invoice Segment Summary

Seq. No.	Seg. ID	Segment Name	Requirement
	ISA	Interchange Control Header	Mandatory
	GS	Functional Group Header	Mandatory
010	ST	Transaction Set Header	Mandatory
020	BIG	Beginning Segment for Invoice	Mandatory
070	N1	Name	Mandatory
080	N2	Additional Name Information	Optional
090	N3	Address Information	Optional
100	N4	Geographic Location	Optional
110	REF	Reference Numbers	Optional
120	PER	Administrative Communications Contact	Optional
130	ITD	Terms of Sale/Deferred Terms of Sale	Mandatory
010	IT1	Baseline Item Data	Mandatory
059	MEA	Measurements	Optional
120	REF	Reference Numbers	Optional
150	DTM	Date/Time Reference	Optional
200	SLN	Subline Item Detail	Optional
230	SAC	Service or Charge Information	Optional
237	TXI	Tax Information	Optional
240	N1	Name	Optional
250	N2	Additional Name Information	Optional
260	N3	Address Information	Optional
270	N4	Geographic Location	Optional
010	TDS	Total Monetary Value Summary	Mandatory
040	SAC	Service or Charge Information	Optional
070	CTT	Transaction Totals	Mandatory
080	SE	Transaction Set Trailer	Mandatory
	GE	Functional Group Trailer	Mandatory
	IEA	Interchange Control Trailer	Mandatory

810 Invoice Segment Detail

ISA Segment: Interchange Control Header

Purpose: To start and identify an interchange of one or more functional groups and interchange related control segments.

General Information: This segment is mandatory. It contains the value of the data element separators, data segment terminators, the identity of the sender and receiver, required authorization and security information.

Example:

ISA*00* *00* *ZZ*156171464 *Interchange ID Qualifier*Your Interchange
ID*010807*1158*U*00400*000000236*1*T*>

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
ISA01	I01	Authorization Info. Qualifier	Req.	“00”
ISA02	I02	Authorization Information	Req.	All Spaces
ISA03	I03	Security Information Qualifier	Req.	“00”
ISA04	I04	Security Information	Req.	All Spaces
ISA05	I05	Interchange ID Qualifier	Req.	“ZZ” (Test) “01” (Production)
ISA06	I06	Interchange Sender ID	Req.	“156171464” (BGE DUNS)
ISA07	I05	Interchange ID Qualifier	Req.	Trading Partner Defined
ISA08	I07	Interchange Receiver ID	Req.	Your Interchange ID
ISA09	I08	Date	Req.	Creation Date
ISA10	I09	Time	Req.	Creation Time
ISA11	I10	Interchange Control Standards Code	Req.	“U”
ISA12	I11	Interchange Version ID	Req.	“00400”
ISA13	I12	Interchange Control No.	Req.	Sequential Number
ISA14	I13	Acknowledgment Requested	Req.	“1”
ISA15	I14	Test Indicator	Req.	“T” (Test) “P” (Production)

ISA16	I15	Subelement Separator	Req.	Hex "3E"
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GS Segment: Functional Group Control Header

Purpose: To indicate the beginning of a functional group and to provide control information.

General Information: This segment is mandatory. It contains the required control information such as date, time, and control number of the transmission, and the ANSI version that the two trading partners are utilizing.

Example:

GS*IN*156171464**Application Receiver's Code**20010807*1158*232*X*004010

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
GS01	479	Functional ID Code	Req.	"IN"
GS02	142	Application Sender's Code	Req.	Code identifying party sending transmission. Codes agreed to by trading partners.
GS03	124	Application Receiver's Code	Req.	Code identifying party receiving transmission. Codes agreed to by trading partners.
GS04	373	Date	Req.	YYYYMMDD
GS05	337	Time	Req.	Time expressed in 24-hour time as follows: HHMM.
GS06	28	Group Control Number	Req.	Assigned number originated and maintained by the sender. Must be identical to GE02.
GS07	455	Responsible Agency Code	Req.	"X"
GS08	480	Version /Release	Req.	"004010"

ST Segment: Transaction Set Control Header**Purpose:** To indicate the start of a transaction set and to assign a control number.**General Information:** This segment is mandatory. It establishes the transaction set that is used in the transmission and identifies to all parties the type of information that will follow in the identified segment.**Example:**

ST*810*0001

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
ST01	143	Transaction Set ID	Req.	“810”
ST02	329	Transaction Set Control Number	Req.	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

BIG Segment: Beginning segment for Invoice**Purpose:** To indicate the beginning of an invoice transaction set and to transmit identifying numbers and dates.**General Information:** This segment is mandatory.**Example:**

BIG*20010702*Account Number+Date**UTILITY***PR*00

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
BIG01	245	Invoice Date	Req.	YYYYMMDD
BIG02	76	Invoice Number	Req.	BGE Bill Account Number + Invoice Date
BIG04	324	Purchase Order Number	Opt.	“UTILITY”
BIG07	640	Transaction Type Code	Opt	“PR” (Product or Service)
BIG08	353	Transaction Set Purpose Code	Opt.	“00”

N1 Segment: Name**Purpose:** To identify a party by type of organization, name and code.**General Information:** This segment is optional. This segment, used alone, provides the most efficient method of providing organizational identification.**Example***N1*BT*Company's Name*91*Bill Account Number*

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
N101	98	Entity Identifier Code	Req.	"BT" (Bill To) "RE" (Remit To)
N102	93	Name	Req.	Company's Name
N103	66	Identification Code Qualifier	Req.	"91" (Assigned by BGE) "1" (Duns Number)
N104	67	Identification Code	Req.	BGE Bill Account Number or Duns Number

N2 Segment: Additional Name Information**Purpose:** To specify additional names or those longer than 35 characters in length.**General Information:** This segment is optional.**Example:***N2*Company's Name*N3*Company's Name*

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
N201	93	Name	Req.	Your Company's Name
N202	93	Name	Opt.	Your Company's Name

N3 Segment: Address Information**Purpose:** To specify the location of the named party.**General Information:** This segment is optional.

Example:

N3*Address Information

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
N301	166	Address Information	Req.	Your Company's Address
N302	166	Address Information	Opt.	Your Company's Address

N4 Segment: Geographic Location

Purpose: To specify the geographic place of the named party.

General Information: This segment is optional.

Example:

N4*City*State*Zip Code

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
N401	19	City Name	Req.	
N402	156	State or Province Code	Req.	
N403	116	Postal Code	Req.	Zip Code

REF Segment: Reference Numbers

Purpose: To specify identifying numbers.

General Information: This segment is optional.

Example:

REF*12*Bill Account Number*BILL ACCT

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
REF01	128	Reference Number Qualifier	Req.	“12” (Bill Account Number)
REF02	127	Reference Number	Req.	This will be the Bill Account Number
REF03	352	Description	Req.	Description of the Reference Number

PER Segment: Administrative Communications Contact

Purpose: To specify identifying contact numbers.

General Information: This segment is optional.

Example:

PER*IC**TE*4102654100

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
PER01	366	Contact Function Code	Req.	“IC” Information Contact
PER03	365	Communication Number Qualifier	Req.	“TE” Telephone
PER04	364	Communication Number	Req.	Telephone Number

ITD Segment: Terms of Sale**Purpose:** To specify terms of sale.**General Information:** This segment is optional.**Example:**

ITD*****20010720

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
ITD06	446	Terms Net Due Date	Opt.	Due Date YYYYMMDD

IT1 Segment: Invoice Detail**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions.**General Information:** This segment is mandatory.**Example:**

IT1*1*****SV*GAS

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
IT101	350	Assigned Identification	Req.	
IT106	235	Product/Service ID Qualifier	Req.	“SV” (Service Rendered)
IT107	234	Product Service ID	Req.	“ELECTRIC” or “GAS”

MEA Segment: Measurements Detail

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.

General Information: This segment is optional. This segment is required for all metered services.

Example:

MEA*AE**121*KH*13948*14069

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
MEA01	737	Measurement Reference ID Code	Opt.	“AA” (Meter reading-beginning actual/ending actual) “AE” (Meter reading-beginning actual/ending estimated) “BO” (Meter reading as billed) “EA” (Meter reading-beginning estimated/ending actual) “EE” (Meter reading-beginning estimated/ending estimated)
MEA03	739	Measurement Value	Opt.	
MEA04	355	Unit or Basis for Measurement Code	Opt.	“KH” (Kilowatt Hour) “CF” (Cubic Feet) “TD” (Therms)
MEA05	740	Range Minimum	Opt.	Beginning reading (electric/gas)
MEA06	741	Range Maximum	Opt.	Ending reading (electric/gas)
MEA07	935	Measure Significance	Opt.	

REF Segment: Reference Numbers**Purpose:** To specify identifying numbers.**General Information:** This segment is optional.**Example:**

REF*MG*001200542*METER NUMBER

REF*RB*0000000023*TARIFF SCHED

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
REF01	128	Reference Number Qualifier	Req.	“RB” (Rate Code Number/Tariff) “MG” (Meter Number)
REF02	127	Reference Number	Req.	Tariff Schedule or Meter Number
REF03	352	Description	Req.	Description of the Reference Number

DTM Segment: Date/Time Reference**Purpose:** To specify pertinent dates and times.**General Information:** This segment is optional.**Example:**

DTM*151****D8*20010627

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
DTM01	374	Date/Time Qualifier	Req.	“150” Start Billing Period “151” End Billing Period
DTM05	1250	Date/Time Period Format	Req.	“D8” Date expressed in format CCYYMMDD
DTM06	1251	Date	Req.	YYYYMMDD

SLN Segment: Subline Item Detail**Purpose:** To specify invoice product detail data.**General Information:** This segment is required.**Example:**

SLN*1.001**A

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
SLN	350	Assigned Identification	Req.	
SLN	559	Configuration Code	Req.	"A" Added

SAC Segment: Service or Charge Information**Purpose:** To specify a service and the amount for that service.**General Information:** This segment is required.**Example:**

SAC*C**EU*FAC*417***.1264*TD*33*****GAS DISTRIBUTION CHARGE

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
SAC01	248	Allowance or Charge Indicator	Req.	"A" Allowance "C" Charge
SAC03	661	Agency Qualifier Code	Req.	"EU"
SAC04	1301	Agency Service Allowance or Charge Code	Req.	
SAC05	610	Amount	Opt.	
SAC08	359	Allowance or Charge Rate	Req.	
SAC09	355	Unit Basis for Measurement Code	Req.	
SAC10	339	Allowance or Charge Quantity	Req.	
SAC15	352	Description	Opt.	

TXI Segment: Tax Information**Purpose:** To specify tax information.**General Information:** This segment is optional. Specify tax information applicable to the baseline item.**Example:**

TXI*ST*1.57*.0500****A

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
TXI01	963	Tax Type Code	Req.	“ET” Energy Tax “GR” Gross Receipts Tax “LO” Local Tax “ST” State Sales Tax
TXI02	782	Monetary Amount	Opt	
TXI03	954	Percent	Opt.	
TXI07	662	Relationship Code	Opt.	“A” Add

N1 Segment: Name**Purpose:** To identify a party by type of organization, name and code.**General Information:** This segment is optional. This segment, used alone, provides the most efficient method of providing organizational identification.**Example**

N1*MQ*Company Name*91*Bill Account Number

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
N101	98	Entity Identifier Code	Req.	“MQ” (Metering Location)
N102	93	Name	Req.	Company’s Name
N103	66	Identification Code Qualifier	Req.	“91” (Assigned by BGE)
N104	67	Identification Code	Req.	BGE Bill Account Number

N2 Segment: Additional Name Information**Purpose:** To specify additional names or those longer than 35 characters in length.**General Information:** This segment is optional.**Example:***N2*Company Name*

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
N201	93	Name	Req.	Your Company's Name
N202	93	Name	Opt.	Your Company's Name

N3 Segment: Address Information**Purpose:** To specify the location of the named party.**General Information:** This segment is optional.**Example:***N3*Address*

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
N301	166	Address Information	Req.	Your Company's Address
N302	166	Address Information	Opt.	Your Company's Address

N4 Segment: Geographic Location**Purpose:** To specify the geographic place of the named party.**General Information:** This segment is optional.**Example:**

N4*City*State*Zip

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
N401	19	City Name	Req.	
N402	156	State or Province Code	Req.	
N403	116	Postal Code	Req.	Zip Code

TDS Segment: Invoice Summary**Purpose:** To specify the total invoice discounts and amounts.**General Information:** This segment is mandatory.**Example:**

TDS*118326□

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
TDS01	361	Total Invoice Amount	Req.	This must equal the sum of the amounts in IT1, ITA, and TXI in the detail and summary areas.

SAC Segment: Service or Charge Information

Purpose: To specify a service and the amount for that service.

General Information: This segment is required.

Example:

SAC*N**EU*LPC*1601*****AFTER JUL 20 2001

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
SAC01	248	Allowance or Charge Indicator	Req.	“N” No Allowance or Charge
SAC03	661	Agency Qualifier Code	Req.	“EU”
SAC04	1301	Agency Service Allowance or Charge Code	Req.	“LPC” Late Payment Charge
SAC05	610	Amount	Opt.	
SAC15	352	Description	Opt.	

CTT Segment: Invoice Summary

Purpose: To transmit a hash total for a specific element in the transaction set.

General Information: This segment is mandatory.

Example:

CTT*2

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
CTT01	354	Number of Line Items	Req.	Total number of line items in the transaction set

SE Segment: Purchase Order Summary

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).

General Information: This segment is mandatory. A SE is the last segment of each transaction set.

Example:

SE*63*0001

Segment ID	Ref. No.	Segment Name	Req. / Opt.	Contents
SE01	96	Number of Included Segments	Req.	Total number of segments included in a transaction set including ST and SE segments
SE02	329	Transaction Set Control Number	Req.	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. Must match the number assigned in the ST segment (ST02).

GE Segment: Functional Group Trailer

Purpose: To indicate the end of a functional group and to provide control information.

General Information: This segment is mandatory.

Example:

GE*1*232

Seg. ID	Ref. No.	Segment Name	Req. / Opt.	Contents
GE01	97	Number of Transaction Sets Included	Req.	Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element
GE02	28	Group Control Number	Req.	Assigned number originated and maintained by the BGE. Must match the number assigned in the GS segment (GS 06).

IEA Segment: Interchange Control Trailer

Purpose: To define the end of an interchange of one or more functional groups and interchange-related control segments.

General Information: This segment is mandatory.

Example:

IEA*1*000000236

Seg. ID	Ref. No.	Segment Name	Req. / Opt.	Contents
IEA01	116	Number of Included Functional Groups	Req.	A count of the number of functional groups included in a transmission
IEA02	112	Interchange Control Number	Req.	This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.

Sample 810 G&E Bill Transmission

Below is a sample of an EDI 810 transmission in version 4010.

```
ISA*00*  *00*  *ZZ*156171464  *00*1234567890
*010807*1158*U*00400*000000236*0*T*>
GS*IN*156171464*1234567890*20010807*1158*232*X*004010
ST*810*0001
BIG*20010702*999999999920010702**UTILITY***PR*00
N1*BT*Your Company Name*91*1234567890
N2*Name Line 2
N3*Company Name
N3*Address
N4*City*State*Zip
N1*RE*BALTIMORE GAS AND ELECTRIC COMPANY*1*156171464
N3*P.O.BOX 1475
N4*BALTIMORE*MD*21203
REF*12*1234567890*BILL ACCT NUMBER
PER*IC**TE*4102654100
ITD*****20010720
IT1*1*****SV*GAS
MEA*AE*MU*0*TD*1692*1724
REF*MG*001200542*METER NUMBER
REF*RB*0000000023*TARIFF SCHED
DTM*150****D8*20010525
DTM*151****D8*20010627
SLN*1.001**A
SAC*C**EU*BAS*2700*****CUSTOMER CHARGE
TXI*ST*1.57*.0500****A
SLN*1.002**A
SAC*C**EU*FAC*417***.1264*TD*33*****GAS DISTRIBUTION CHARGE
SLN*1.003**A
SAC*C**EU*SUR*13***.00402*TD*33*****GAS FRANCHISE TAX
SLN*1.004**A
SAC*C**EU*FUE*349***.582*TD*6*****GAS COMMODITY CHARGE
TXI*ST*0.84*.0500****A
SLN*1.005**A
SAC*C**EU*FUE*1317***.4877*TD*27*****GAS COMMODITY CHARGE
IT1*2*****SV*ELECTRIC
MEA*AE*MU*100*KH*13948*14069
REF*MG*G055296626*METER NUMBER
REF*RB*0000000050*TARIFF SCHED
DTM*150****D8*20010525
DTM*151****D8*20010627
SLN*2.001**ASAC*A**EU*DSC*6000*****CREDIT FOR AIR CONDITIONING
CONTROLL
```

SLN*2.002**A
SAC*C**EU*ENC*68413***.05654*KH*12100*****BGE ELEC SUPPLY
SLN*2.003**A
SAC*C**EU*BAS*1150*****CUSTOMER CHARGE
TXI*ST*50.81*.0500*****A
SLN*2.004**A
SAC*C**EU*ENC*29330***.02424*KH*12100*****DISTRIBUTION CHARGE
SLN*2.005**A
SAC*C**EU*ENC*6970***.00576*KH*12100*****CTC
SLN*2.006**A
SAC*C**EU*MSC*1000*****MD UNIVERSAL SVC
SLN*2.007**A
SAC*C**EU*SUR*182***.00015*KH*12100*****STATE SURCHARGE
SLN*2.008**A
SAC*C**EU*SUR*750***.00062*KH*12100*****FRANCHISE TAX
SLN*2.009**A
SAC*C**EU*SUR*6413***.0053*KH*12100*****LOCAL TAX
N1*MQ*BLOCKBUSTER VIDEOS INC*91*0299909569
N3*6666 SECURITY BLVD
N4*BAY 16,17,18,19,20** 0000
TDS*118326
SAC*N**EU*LPC*1601*****AFTER JUL 20 2001
CTT*2
SE*63*0001
GE*1*232
IEA*1*000000236