



**To: Electronic Data Interchange (EDI) Partners:**

**Following are our Utility Industry Group compliant EDI 810 version 4010 guidelines for your use in implementing EDI. Following the guidelines on page 40, you will find information regarding modifications to these guidelines and a sample invoice reflecting these changes.**

**Should you have questions regarding EDI, contact Southern Company EDI Support at [edisupp@southernco.com](mailto:edisupp@southernco.com). We look forward to helping you improve your business and meeting your energy needs.**



# **Southern Company**

## **EDI Implementation Guideline**

### **810 Utility Invoice**

**Version 004010**

# 810

# Invoice

## Functional Group=IN

### Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
	ISA	Interchange Control Header	M	1		
	GS	Functional Group Header	M	1		

### Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	ST	Transaction Set Header	M	1		
020	BIG	Beginning Segment for Invoice	M	1		
030	NTE	Note/Special Instruction	O	100		
050	REF	Reference Identification	O	12		

#### LOOP ID - N1

200

070	N1	Name	O	1		
090	N3	Address Information	O	2		
100	N4	Geographic Location	O	1		
110	REF	Reference Identification	O	12		
120	PER	Administrative Communications Contact	O	3		
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
140	DTM	Date/Time Reference	O	10		

### Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
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#### LOOP ID - IT1

200000

010	IT1	Baseline Item Data (Invoice)	O	1		
040	TXI	Tax Information	O	10		
059	MEA	Measurements	O	40		

#### LOOP ID - PID

1000

060	PID	Product/Item Description	O	1		
120	REF	Reference Identification	O	>1		
150	DTM	Date/Time Reference	O	10		

#### LOOP ID - SLN

1000

200	SLN	Subline Item Detail	O	1		
230	SAC	Service, Promotion, Allowance, or Charge Information	O	25		

#### LOOP ID - N1

200

240	N1	Name	O	1		
250	N2	Additional Name Information	O	2		
260	N3	Address Information	O	2		
270	N4	Geographic Location	O	1		
280	REF	Reference Identification	O	12		

### Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	TDS	Total Monetary Value Summary	M	1		
020	TXI	Tax Information	O	10		

#### LOOP ID - SAC

25

040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
070	CTT	Transaction Totals	O	1		N3/070
080	SE	Transaction Set Trailer	M	1		

### Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
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GE	Functional Group Trailer	M	1
IEA	Interchange Control Trailer	M	1

To start and identify an interchange of zero or more functional groups and interchange-related control segments

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
ISA01	I01	<b>Authorization Information Qualifier</b>	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		00      No Authorization Information Present (No Meaningful Information in I02)			
ISA02	I02	<b>Authorization Information</b>	M	AN	10/10
ISA03	I03	<b>Security Information Qualifier</b>	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		00      No Security Information Present (No Meaningful Information in I04)			
ISA04	I04	<b>Security Information</b>	M	AN	10/10
ISA05	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		01      Duns (Dun & Bradstreet)			
		02      SCAC (Standard Carrier Alpha Code)			
		09      X.121 (CCITT)			
		12      Phone (Telephone Companies)			
		14      Duns Plus Suffix			
		16      Duns Number With 4-Character Suffix			
		17      American Bankers Association (ABA) Transit Routing Number (Including Check Digit, 9 Digit)			
		ZZ      Mutually Defined			
ISA06	I06	<b>Interchange Sender ID</b>	M	AN	15/15
ISA07	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		01      Duns (Dun & Bradstreet)			
		02      SCAC (Standard Carrier Alpha Code)			
		09      X.121 (CCITT)			
		12      Phone (Telephone Companies)			
		14      Duns Plus Suffix			
		16      Duns Number With 4-Character Suffix			
		17      American Bankers Association (ABA) Transit Routing Number (Including Check Digit, 9 Digit)			
		ZZ      Mutually Defined			
ISA08	I07	<b>Interchange Receiver ID</b>	M	AN	15/15
ISA09	I08	<b>Interchange Date</b>	M	DT	6/6
ISA10	I09	<b>Interchange Time</b>	M	TM	4/4
ISA11	I65	<b>Repetition Separator</b>	M		1/1
ISA12	I11	<b>Interchange Control Version Number</b>	M	ID	5/5
		<u>Code</u> <u>Name</u>			
		00401      Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997			
ISA13	I12	<b>Interchange Control Number</b>	M	N0	9/9
ISA14	I13	<b>Acknowledgment Requested</b>	M	ID	1/1
		<u>Code</u> <u>Name</u>			
		0      No Interchange Acknowledgment Requested			
		1      Interchange Acknowledgment Requested (TA1)			
ISA15	I14	<b>Interchange Usage Indicator</b>	M	ID	1/1
		<u>Code</u> <u>Name</u>			
		P      Production Data			
		T      Test Data			
ISA16	I15	<b>Component Element Separator</b>	M		1/1

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

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
GS01	479	<b>Functional Identifier Code</b>	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		IN              Invoice Information (810)			
GS02	142	<b>Application Sender's Code</b>	M	AN	2/15
GS03	124	<b>Application Receiver's Code</b>	M	AN	2/15
GS04	373	<b>Date</b>	M	DT	8/8
GS05	337	<b>Time</b>	M	TM	4/8
GS06	28	<b>Group Control Number</b>	M	N0	1/9
GS07	455	<b>Responsible Agency Code</b>	M	ID	1/2
		<u>Code</u> <u>Name</u>			
		X              Accredited Standards Committee X12			
GS08	480	<b>Version / Release / Industry Identifier Code</b>	M	AN	1/12
		<u>Code</u> <u>Name</u>			
		004010      Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997			

# ST

## Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

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

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3
		<u>Code</u> <u>Name</u>			
		810                Invoice			
ST02	329	Transaction Set Control Number	M	AN	4/9

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>								
BIG01	373	<b>Date</b> <i>Invoice Date expressed as CCYYMMDD</i>	M	DT	8/8								
BIG02	76	<b>Invoice Number</b> <i>Southern Company will send a unique number that should be returned with the payment. The invoice number will be a concatenation of the customer account number and the invoice date.</i>	M	AN	1/22								
BIG04	324	<b>Purchase Order Number</b> <i>"UTILITY"</i>	O	AN	1/22								
BIG07	640	<b>Transaction Type Code</b> <table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>07</td> <td>Budget</td> </tr> <tr> <td>FB</td> <td>Final Bill</td> </tr> <tr> <td>PR</td> <td>Product (or Service)</td> </tr> </table>	<u>Code</u>	<u>Name</u>	07	Budget	FB	Final Bill	PR	Product (or Service)	O	ID	2/2
<u>Code</u>	<u>Name</u>												
07	Budget												
FB	Final Bill												
PR	Product (or Service)												
BIG08	353	<b>Transaction Set Purpose Code</b> <table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>00</td> <td>Original</td> </tr> <tr> <td>05</td> <td>Replace</td> </tr> </table>	<u>Code</u>	<u>Name</u>	00	Original	05	Replace	O	ID	2/2		
<u>Code</u>	<u>Name</u>												
00	Original												
05	Replace												



# NTE

# Note/Special Instruction

Pos: 030	Max: 100
Heading - Optional	
Loop: N/A	Elements: 2

To transmit information in a free-form format, if necessary, for comment or special instruction

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
NTE01	363	<b>Note Reference Code</b>	O	ID	3/3
		<b>Code</b> <b>Name</b>			
		OTH                Other Instructions			
NTE02	352	<b>Description</b>	M	AN	1/80

## Notes:

*The NTE segment will be used to send regulatory-required messages and notices.*

# REF

## Reference Identification

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

To specify identifying information

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3
		<u>Code</u> <u>Name</u>			
		OI                    Original Invoice Number			
REF02	127	Reference Identification	C	AN	1/30
		<i>Original invoice number</i>			

### Notes:

*This segment will be used to send original invoice number only if BIG08 = "05".*

# N1

## Name

Pos: 070	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

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

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3
		<b>Code</b> <b>Name</b>			
		BT                Bill-to-Party			
		RE                Party to receive commercial invoice remittance			
N102	93	<b>Name</b>	C	AN	1/60
N103	66	<b>Identification Code Qualifier</b>	C	ID	1/2
		<b>Code</b> <b>Name</b>			
		91                Assigned by Seller or Seller's Agent			
		92                Assigned by Buyer or Buyer's Agent			
N104	67	<b>Identification Code</b>	C	AN	2/80

### Notes:

*If N101 = BT and N103 = 91 then N104 = Southern Company assigned account number.*

*If N101 = RE and N103 = 92 then N104 = Customer supplied account or location identification data.*

# N3

## Address Information

Pos: 090	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

To specify the location of the named party

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N301	166	Address Information	M	AN	1/55
N302	166	Address Information	O	AN	1/55

### Notes:

*N3 will be sent only when N101 = "RE".*

# N4

## Geographic Location

Pos: 100	Max: 1
Heading - Optional	
Loop: N1	Elements: 3

To specify the geographic place of the named party

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N401	19	City Name	O	AN	2/30
N402	156	State or Province Code	O	ID	2/2
N403	116	Postal Code	O	ID	3/15

### Notes:

*N4 will be sent only when N101 = "RE".*

# REF

## Reference Identification

Pos: 110	Max: 12
Heading - Optional	
Loop: N1	Elements: 2

To specify identifying information

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3
		<u>Code</u> <u>Name</u>			
		AQ                Access Code			
		ZZ                Mutually Defined			
REF02	127	Reference Identification	C	AN	1/30

### Notes:

The REF segment will be used when N101 = "BT" with REF01 = "ZZ" to send additional customer identifying data as required.

The REF segment will be used when N101 = "BT" with REF01 = "AQ" to send the customers Web Account Access Code.

# PER

## Administrative Communications Contact

Pos: 120	Max: 3
Heading - Optional	
Loop: N1	Elements: 4

To identify a person or office to whom administrative communications should be directed

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
PER01	366	<b>Contact Function Code</b>	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		CR            Customer Relations			
PER02	93	<b>Name</b>	O	AN	1/60
PER03	365	<b>Communication Number Qualifier</b>	C	ID	2/2
		<u>Code</u> <u>Name</u>			
		TE            Telephone			
PER04	364	<b>Communication Number</b>	C	AN	1/80

### Notes:

*PER will be sent only when N101 = "RE".*

# ITD

## Terms of Sale/Deferred Terms of Sale

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 1

To specify terms of sale

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
ITD06	446	<b>Terms Net Due Date</b> <i>Payment Due Date expressed as CCYYMMDD</i>	O	DT	8/8



# DTM

## Date/Time Reference

Pos: 140	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

To specify pertinent dates and times

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3
		<u>Code</u>			
		135			
		<u>Name</u>			
		Booking			
		<i>Revenue Period</i>			
DTM02	373	Date	C	DT	8/8

To specify the basic and most frequently used line item data for the invoice and related transactions

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
IT101	350	<b>Assigned Identification</b> <i>Line Item Counter</i>	O	AN	1/20
IT106	235	<b>Product/Service ID Qualifier</b> <u>Code</u> <u>Name</u> SV                    Service Rendered	C	ID	2/2
IT107	234	<b>Product/Service ID</b> "ELECTRIC"	C	AN	1/48

To specify tax information

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
TXI01	963	<b>Tax Type Code</b>	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		CA            City Tax			
		CT            County Tax			
		ET            Energy Tax			
		FR            Franchise Tax			
		GR            Gross Receipts Tax			
		MP            Municipal Tax			
		ST            State Sales Tax			
		TX            All Taxes			
		UL            License Tax			
TXI02	782	<b>Monetary Amount</b>	C	R	1/18
TXI07	662	<b>Relationship Code</b>	O	ID	1/1
		<u>Code</u> <u>Name</u>			
		A            Add			
		O            Information Only			
TXI10	350	<b>Assigned Identification</b>	O	AN	1/20
		<i>TXI10 will be used to send the taxing locality name for city, county or municipal taxes for Gulf Power invoices only.</i>			

### Notes:

*TXI07 will be used to indicate if the amount in TXI02 should be included in summing the invoice. TXI07 wil = "O" when the tax amount is for information only on budget bill invoices and the TXI02 amount should not be included in summing the invoice.*

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
MEA01	737	<b>Measurement Reference ID Code</b>	O	ID	2/2
		<u>Code</u> <u>Name</u>			
		AA      Meter reading-beginning actual/ending actual			
		AE      Meter reading-beginning actual/ending estimated			
		EA      Meter reading-beginning estimated/ending actual			
		EE      Meter reading-beginning estimated/ending estimated			
MEA02	738	<b>Measurement Qualifier</b>	O	ID	1/3
		<u>Code</u> <u>Name</u>			
		MU      Multiplier			
MEA03	739	<b>Measurement Value</b>	C	R	1/20
		<i>Meter constant</i>			
MEA04	C001	<b>Composite Unit of Measure</b>	C	Comp	
	355	<b>Unit or Basis for Measurement Code</b>	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		BY      British Thermal Unit (BTU)			
		DA      Days			
		HR      Hours			
		K1      Kilowatt Demand			
		K3      Kilovolt Amperes Reactive Hour			
		K4      Kilovolt Amperes			
		K5      Kilovolt Amperes Reactive			
		K7      Kilowatt			
		K9      Kilograms per Millimeter Squared (KG/MM2)			
		KH      Kilowatt Hour			
		T1      Thousand pounds gross			
		UN      Unit			
MEA05	740	<b>Range Minimum</b>	C	R	1/20
		<i>Beginning reading</i>			
MEA06	741	<b>Range Maximum</b>	C	R	1/20
		<i>Ending reading or single reading (e.g., demand)</i>			
MEA07	935	<b>Measurement Significance Code</b>	O	ID	2/2
		<u>Code</u> <u>Name</u>			
		22      Actual			
		31      Calculated			
		41      Off Peak			
		42      On Peak			
		43      Intermediate			
		AA      Summer On Peak			
		AB      Summer Mid Peak			
		AC      Summer Off Peak			
		AF      Winter On Peak			
		AG      Winter Mid Peak			
		AH      Winter Off Peak			
		AO      Summer			
		AP      Winter			

To describe a product or process in coded or free-form format

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
PID01	349	<b>Item Description Type</b>	M	ID	1/1
		<b>Code</b> <b>Name</b>			
		F              Free-form			
PID05	352	<b>Description</b>	C	AN	1/80

*Tariff or lighting components or detail meter or usage information.*

*If PID05 is being used to convey additional meter or detail usage information, the element will be formatted as follows:*

*The literal "Usage Info." or "Meter Info Desc." in positions 1-19*

*The reading type description in positions 20-45*

*The reading value in positions 46-60 with 10 digits to the left of the decimal and 4 digits to the right.*

# REF

# Reference Identification

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
REF01	128	<b>Reference Identification Qualifier</b>	M	ID	2/3
		<b><u>Code</u></b>			
		46			
		<b><u>Name</u></b>			
		Old Meter Number			
		<i>Identifies meter being removed</i>			
		MG			
		Meter Number			
		NH			
		Rate Card Number			
		<i>Identifies a utility rate class or tariff</i>			
REF02	127	<b>Reference Identification</b>	C	AN	1/30
REF03	352	<b>Description</b>	C	AN	1/80

# DTM

## Date/Time Reference

Pos: 150	Max: 10
Detail - Optional	
Loop: IT1	Elements: 2

To specify pertinent dates and times

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>		<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
DTM01	374	<b>Date/Time Qualifier</b>		M	ID	3/3
		<u>Code</u>	<u>Name</u>			
		150	Service Period Start			
		151	Service Period End			
DTM02	373	<b>Date</b>		C	DT	8/8

To specify product subline detail item data

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
SLN01	350	<b>Assigned Identification</b> <i>Sequential number assigned as a loop counter</i>	M	AN	1/20
SLN03	662	<b>Relationship Code</b> <u>Code</u> <u>Name</u> A              Add	M	ID	1/1

### Notes:

*The IT1/SLN segment is used to overcome the limitation on the number of IT1/SAC loops.  
Each SLN loop will contain only one SAC. Multiple charges/allowances require multiple SLN loops.*



# SAC

# Service, Promotion, Allowance, or Charge Information

Pos: 230	Max: 25
Detail - Optional	
Loop: SLN	Elements: 8

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
SAC01	248	<b>Allowance or Charge Indicator</b>	M	ID	1/1
		<b>Code</b> <b>Name</b>			
		A            Allowance			
		C            Charge			
		N            No Allowance or Charge			
SAC03	559	<b>Agency Qualifier Code</b>	C	ID	2/2
		<b>Code</b> <b>Name</b>			
		EU          Electric Utilities			
SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b>	C	AN	1/10
		<b>Code</b> <b>Name</b>			
		ADJ001      Cost Recovery Adjustment			
		ADJ002      Adjustment			
		ADJ007      Metering Adjustment			
		BAS001      Basic Customer Charge			
		BAS002      Special Billing Charge			
		BAS003      Delivery Point Charge			
		BUD001      Budget Billing Amount			
		COL001      Collection Charge			
		CRE001      Credit			
		CRE009      Interruptible Credit			
		CRE010      Off Peak Credit			
		DAB001      Deposit			
		DAB002      Deposit Interest			
		DAB003      Deposit Applied			
		DCS001      Disconnect Charge			
		DIS001      Distribution Charge			
		DMD001      Demand Charge			
		DMD003      Non-Time Related Demand Charge			
		DMD004      Reactive Demand Charge			
		DMD006      Off Peak Demand Charge			
		DMD007      On Peak Demand Charge			
		DMD012      Summer On Peak Demand Charge			
		DSC001      Discount			
		DSC004      Economic Development Discount			
		DSC006      Church Discount			
		DSC011      Legislated Rate Reduction Discount			
		DSC012      Demand Voltage Discount			
		ENC001      Energy Charge			
		ENC003      Off Peak Charge			
		ENC004      Summer Off Peak Charge			
		ENC005      Summer On Peak Charge			
		ENC007      Summer Super On Peak Charge			
		FAC001      Equipment and Service Charge			
		FUE001      Fuel Adjustment			
		FUE002      Fuel Adjustment On Peak			
		FUE003      Fuel Adjustment Off Peak			
		HOC001      Service Connection Charge			

IBC001	Core Standby Service Charge
IBC014	Curtailment Violation Charge
IBC016	SL2 Surcharge
LAA001	Billing for Work Done
LPC001	Late Payment Charge
MAD001	Minimum Bill
MSC001	Miscellaneous Charge
MSC007	Property Damage
MSC008	Punitive Damage
ODL001	Outdoor Lighting
ODL002	Street Lighting
ODL003	Traffic Signals
PFA001	Power Factor Adjustment
PRB001	Past Due Balance
PRB002	Unpaid Balance
RCS001	Reconnect Charge
RES007	Interconnect Access Firm Reservation Charge
RRR001	Regulatory Required Refund
RTC001	Return Check Fee
SER001	Service Charge
SER002	Cost of Service
SMD001	Appliance Contract Installment
SMD002	Cash Sales/Stores
SMD003	Comm Heat Pump/Water Heater Equip
SMD007	Heat Pump Installment
SMD011	Other Services and Merchandise
SMD012	PWR Protection Equipment
SUR001	State/Intrastate Surcharge
TEM001	Temporary Service
TRS001	Transfer from Account to Account
VCR001	Voluntary Pledge Contributions

SAC05	610	<b>Amount</b>	O	N2	1/15
<i>The amount shown in SAC05 may be either positive or negative; if negative, the minus sign "-", will be transmitted.</i>					

SAC08	118	<b>Rate</b>	O	R	1/9
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SAC09	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2
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<u>Code</u>	<u>Name</u>
BY	British Thermal Unit (BTU)
DA	Days
HR	Hours
K1	Kilowatt Demand
K3	Kilovolt Amperes Reactive Hour
K4	Kilovolt Amperes
K5	Kilovolt Amperes Reactive
K7	Kilowatt
K9	Kilograms per Millimeter Squared (KG/MM2)
KH	Kilowatt Hour
T1	Thousand pounds gross
UN	Unit

SAC10	380	<b>Quantity</b>	C	R	1/15
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SAC15	352	<b>Description</b>	C	AN	1/80
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**Notes:**

Prior versions of the 810 utility invoice always contained a positive amount in SAC05 and used the SAC01 element to indicate if the amount should be added or subtracted to calculate the total invoice amount. As a result of a clarification provided by X12F and subsequent modification of the UIG guidelines, the above practice has been changed. If the amount in SAC05 should be subtracted from the invoice total, the minus sign will be sent.

# N1

## Name

Pos: 240	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

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

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3
		<b>Code</b> <b>Name</b>			
		MQ                Metering Location			
N102	93	<b>Name</b>	C	AN	1/60
N103	66	<b>Identification Code Qualifier</b>	C	ID	1/2
		<b>Code</b> <b>Name</b>			
		92                Assigned by Buyer or Buyer's Agent			
		<i>Customer-assigned number</i>			
N104	67	<b>Identification Code</b>	C	AN	2/80
		<i>Customer supplied account or location identification data</i>			

Pos: 250	Max: 2
Detail - Optional	
Loop: N1	Elements: 1

To specify additional names or those longer than 35 characters in length

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N201	93	<b>Name</b> <i>In care of name (if applicable)</i>	M	AN	1/60

# N3

## Address Information

Pos: 260	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

To specify the location of the named party

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N301	166	Address Information	M	AN	1/55
N302	166	Address Information	O	AN	1/55

To specify the geographic place of the named party

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
N401	19	City Name	O	AN	2/30
N402	156	State or Province Code	O	ID	2/2
N403	116	Postal Code	O	ID	3/15

# REF

## Reference Identification

Pos: 280	Max: 12
Detail - Optional	
Loop: N1	Elements: 2

To specify identifying information

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3
		<u>Code</u> <u>Name</u>			
		ZZ                Mutually Defined			
REF02	127	Reference Identification	C	AN	1/30

### Notes:

*The REF segment will be used to send additional customer identifying data as required.*

# TDS

# Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 1

To specify the total invoice discounts and amounts

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
TDS01	610	Amount	M	N2	1/15

## Notes:

*TDS01 is the total amount due for this invoice and will equal the algebraic sum of the amounts in the TXI02 (when TXI07 = "A") and SAC05 elements (when SAC01 = "A" or "C").*



To specify tax information

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
TXI01	963	<b>Tax Type Code</b>	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		CA            City Tax			
		CT            County Tax			
		ET            Energy Tax			
		FR            Franchise Tax			
		GR            Gross Receipts Tax			
		MP            Municipal Tax			
		ST            State Sales Tax			
		TX            All Taxes			
		UL            License Tax			
TXI02	782	<b>Monetary Amount</b>	C	R	1/18
TXI07	662	<b>Relationship Code</b>	O	ID	1/1
		<u>Code</u> <u>Name</u>			
		A            Add			
		O            Information Only			
TXI10	350	<b>Assigned Identification</b>	O	AN	1/20
		<i>TXI10 will be used to send the taxing locality name for city, county or municipal taxes for Gulf Power invoices only.</i>			

### Notes:

*Taxes included in this position are account/invoice level taxes.*

*TXI07 will be used to indicate if the amount in TXI02 should be included in summing the invoice. TXI07 wil = "O" when the tax amount is for information only on budget bill invoices and the TXI02 amount should not be included in summing the invoice.*

# SAC

## Service, Promotion, Allowance, or Charge Information

Pos: 040	Max: 1
Summary - Optional	
Loop: SAC	Elements: 8

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
SAC01	248	<b>Allowance or Charge Indicator</b>	M	ID	1/1
		<u>Code</u> <u>Name</u>			
		A            Allowance			
		C            Charge			
		N            No Allowance or Charge			
SAC03	559	<b>Agency Qualifier Code</b>	C	ID	2/2
		<u>Code</u> <u>Name</u>			
		EU          Electric Utilities			
SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b>	C	AN	1/10
		<u>Code</u> <u>Name</u>			
		ADJ001      Cost Recovery Adjustment			
		ADJ002      Adjustment			
		ADJ007      Metering Adjustment			
		BAS001      Basic Customer Charge			
		BAS002      Special Billing Charge			
		BAS003      Delivery Point Charge			
		BUD001      Budget Billing Amount			
		COL001      Collection Charge			
		CRE001      Credit			
		CRE009      Interruptible Credit			
		CRE010      Off Peak Credit			
		DAB001      Deposit			
		DAB002      Deposit Interest			
		DAB003      Deposit Applied			
		DCS001      Disconnect Charge			
		DIS001      Distribution Charge			
		DMD001      Demand Charge			
		DMD003      Non-Time Related Demand Charge			
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		DMD006      Off Peak Demand Charge			
		DMD007      On Peak Demand Charge			
		DMD012      Summer On Peak Demand Charge			
		DSC001      Discount			
		DSC004      Economic Development Discount			
		DSC006      Church Discount			
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		ENC003      Off Peak Charge			
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RES007	Interconnect Access Firm Reservation Charge
RRR001	Regulatory Required Refund
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SER001	Service Charge
SER002	Cost of Service
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SMD002	Cash Sales/Stores
SMD003	Comm Heat Pump/Water Heater Equip
SMD007	Heat Pump Installment
SMD011	Other Services and Merchandise
SMD012	PWR Protection Equipment
SUR001	State/Intrastate Surcharge
TEM001	Temporary Service
TRS001	Transfer from Account to Account
VCR001	Voluntary Pledge Contributions

SAC05	610	<b>Amount</b>	O	N2	1/15
<i>The amount shown in SAC05 may be either positive or negative; if negative, the minus sign "-", will be transmitted.</i>					

SAC08	118	<b>Rate</b>	O	R	1/9
-------	-----	-------------	---	---	-----

SAC09	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2
-------	-----	---	---	----	-----

<u>Code</u>	<u>Name</u>
BY	British Thermal Unit (BTU)
DA	Days
HR	Hours
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K3	Kilovolt Amperes Reactive Hour
K4	Kilovolt Amperes
K5	Kilovolt Amperes Reactive
K7	Kilowatt
K9	Kilograms per Millimeter Squared (KG/MM2)
KH	Kilowatt Hour
T1	Thousand pounds gross
UN	Unit

SAC10	380	<b>Quantity</b>	C	R	1/15
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SAC15	352	<b>Description</b>	C	AN	1/80
-------	-----	--------------------	---	----	------

**Notes:**

Prior versions of the 810 utility invoice always contained a positive amount in SAC05 and used the SAC01 element to indicate if the amount should be added or subtracted to calculate the total invoice amount. As a result of a clarification provided by X12F and subsequent modification of the UIG guidelines the above practice has been changed. If the amount in SAC05 should be subtracted from the invoice total, the minus sign will be sent.

# CTT

## Transaction Totals

Pos: 070	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

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

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
CTT01	354	Number of Line Items	M	N0	1/6

# SE

# Transaction Set Trailer

Pos: 080	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
SE01	96	Number of Included Segments	M	N0	1/10
SE02	329	Transaction Set Control Number	M	AN	4/9

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

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
GE01	97	Number of Transaction Sets Included	M	N0	1/6
GE02	28	Group Control Number	M	N0	1/9

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

To define the end of an interchange of zero or more functional groups and interchange-related control segments

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5
IEA02	I12	Interchange Control Number	M	N0	9/9

**MODIFICATIONS TO 4010 SPECIFICATIONS AND SAMPLE INVOICE:**

In order to provide more detailed billing and usage information for some of our customers, Southern Company Services (Alabama Power Company, Georgia Power Company, Gulf Power Company, Mississippi Power Company, and Savannah Electric and Power Company) implemented a new 810 map effective with invoices sent March 17, 2000. This new map will include **additional** PID segments (version 4010).

The literals, descriptions and values will always be in fixed positions within the PID05. The literal "Usage Info." or "Meter Info Desc." will always be in positions 1-19. The reading type description will be in positions 20-45 and the actual value in positions 46-60. The value will be stated with ten (10) digits to the left of the decimal and four (4) digits to the right of the decimal.

**SAMPLE INVOICE (VERSION 4010) INCLUDING CHANGES MENTIONED ABOVE:**

BIG\*19960126\*0468980000960126\*\*UTILITY\*\*\*PR\*00~  
REF\*TJ\*64-0205820~  
N1\*BT\*NUMBER 00012 CORPORATION\*91\*0468980000~  
N1\*RE\*MISSISSIPPI POWER~  
N3\*PO BOX 245~  
N4\*BIRMINGHAM\*AL\*352010245~  
PER\*CR\*\*TE\*770-840-3668~  
ITD\*\*\*\*\*19960216~  
DTM\*135\*19960201~  
IT1\*1\*\*\*\*\*SV\*ELECTRIC~  
MEA\*AA\*MU\*400\*KH\*5921\*6300\*22~  
MEA\*AA\*MU\*400\*K7\*0\*0\*22~  
MEA\*AA\*MU\*400\*K4\*0\*1.12\*31~  
MEA\*AA\*MU\*1\*UN\*0.93\*0.93\*31~  
MEA\*AA\*MU\*400\*K4\*6527\*6936\*22~  
MEA\*\*\*\*K1\*\*500\*31~  
PID\*F\*\*\*\*Contract Demand                    Contract Demand:                    0000500.00000~  
PID\*F\*\*\*\*Usage Info.            TOT KWH:                    0000151600.0000~  
PID\*F\*\*\*\*Usage Info.            RATCH KW:                    0000000500.0000~  
PID\*F\*\*\*\*Usage Info.            RATCH BILLING KW:            0000000500.0000~  
PID\*F\*\*\*\*Usage Info.            PK KW:                    0000000000.0000~  
PID\*F\*\*\*\*Usage Info.            BILLING DEMAND:            0000000500.0000~  
REF\*RB\*LGS-PRI\*Large General Service KW Contract (Pri)~  
REF\*MG\*700531~  
DTM\*150\*19951227~  
DTM\*151\*19960126~  
SLN\*1\*\*A~  
SAC\*C\*\*EU\*BAS001\*79500\*\*\*\*\*Base Charge~  
SLN\*2\*\*A~  
SAC\*C\*\*EU\*DMD001\*212500\*\*\*4.25\*K4\*500\*\*\*\*\*Demand~  
SLN\*3\*\*A~  
SAC\*A\*\*EU\*DSC012\*-12500\*\*\*0.25\*K7\*500\*\*\*\*\*Voltage Adj.~  
SLN\*4\*\*A~  
SAC\*A\*\*EU\*FUE001\*-113351\*\*\*0.007477\*KH\*151600\*\*\*\*\*Fuel Charge~  
SLN\*5\*\*A~  
SAC\*C\*\*EU\*SUR001\*11764\*\*\*0.000776\*KH\*151600\*\*\*\*\*A.T.A.~



SLN\*6\*\*A~  
SAC\*C\*\*EU\*SUR001\*20148\*\*\*0.001329\*UN\*151600\*\*\*\*\*Environmental Cost~  
SLN\*7\*\*A~  
SAC\*C\*\*EU\*ENC001\*415500\*\*\*0.04155\*KH\*100000\*\*\*\*\*Energy Charge~  
SLN\*8\*\*A~  
SAC\*C\*\*EU\*ENC001\*198815\*\*\*0.03853\*KH\*51600\*\*\*\*\*Energy Charge~  
N1\*MQ\*NUMBER 00012 CORPORATION~  
N3\*107 TECHNOLOGY PARK PKWY~  
N4\*NORCROSS\*GA\*30093~  
TDS\*1637532~  
SAC\*C\*\*EU\*PRB002\*825156\*\*\*\*\*Electric Service~  
CTT\*1~