



RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Texaco

Request No.: R97064 - A

1. Recommended Action:

- Accept as requested
- Accept as modified below
- Decline

Effect of EC Vote to Accept Recommended Action:

- Change to Existing Practice
- Status Quo

2. TYPE OF MAINTENANCE

Per Request:

- Initiation
- Modification
- Interpretation
- Withdrawal

- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

Per Recommendation:

- Initiation
- Modification
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- Principle (x.1.z)
- Definition (x.2.z)
- Business Practice Standard (x.3.z)
- Document (x.4.z)
- Data Element (x.4.z)
- Code Value (x.4.z)
- X12 Implementation Guide
- Business Process Documentation

3. RECOMMENDATION

TECHNICAL CHANGE LOG (all instructions to accomplish the recommendation)

Document Name and No.: Transportation/Sales Invoice (3.4.1)
 Service Requester Level Charge/Allowance Invoice (3.4.4)

Description of Change:
G811TSIN - Transportation/Sales Invoice (3.4.1)
Data Element Xref to X12
Sub-detail level N1 segment: change all "N1" to "NM1"
[See attached Data Element Cross Reference to ASC X12.*]
Sample X12
change all 3 sub-detail N1 lines (after IT1 lines) to NM1 lines: in each, change "N1" to NM1" and change "***29*" to "*3*****29*"
[See attached Sample ASC X12 Transaction]
X12 Mapping
Detail level (HL03 = 'IB') DTM segment: structure of DTM has changed from 3040 to 4010: move DTM06 (elem 1250) to DTM05; move DTM07 (elem 1251) to DMT06

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Sub-detail N1 segment has changed to an NM1 segment: move N101 (elem 98) to NM101; NM102 = '3'; move N103 (elem 66) to NM108; move N104 (elem 67) to NM109

Detail level (HL03 = 'CH') DTM segment: structure of DTM has changed from 3040 to 4010: move DTM06 (elem 1250) to DTM05; move DTM07 (elem 1251) to DMT06

Detail level (HL03 = 'CH') DTM segment: delete note "(ANSI approved in version 3060)" from code value RD5 in DTM05

[See attached X12 Mapping.*]

Transaction Set Tables

"N1 Segment (Sub-detail - IT1 loop)" table: change "N1" in table name to "NM1"; change column heading "N101" to "NM101"; change column heading "N103" to "NM108"; change column heading "N103 Description" to "NM108 Description"

[See attached Transaction Set Tables.*]

G811SRCA - Service Requester Level Charge/Allowance Invoice (3.4.4)

[See attached Data Element Cross Reference to ASC X12, Sample ASC X12 Transaction, and Transaction Set Tables.*]

X12 Mapping

Detail level (HL03 = 'CH') DTM segment: structure of DTM has changed from 3040 to 4010: move DTM06 (elem 1250) to DTM05; move DTM07 (elem 1251) to DMT06

Detail level (HL03 = 'CH') DTM segment: delete note "(ANSI approved in version 3060)" from code value RD5 in DTM05

[See attached X12 Mapping.*]

The following Minor Clarifications and Corrections are included in the attached Year 2000 Compliant (004010) Transportation/Sales Invoice X12 Implementation Guide:

G811TSIN - Transportation/Sales Invoice (3.4.1)

Data Element Xref to X12

Heading REF Segment: Modify "Tax Identification Number" to "Tax Identification Code"

Heading N1 Segments: Modify the order of the segments to:

- N1 MA Service Requester
- N1 M Payee
- N1 M Billable Party (Payer)
- N1 SO Remittance Address

X12 Mapping

Heading ITD Segment, ITD11 Element: Modify "For GISB, send '100'." to "For GISB, when Electronic Funds Transfer Due Date is sent in ITD09, send '100' in ITD11."

Heading N1 Segment, N104 Element: Add a comma after "Service Requester". Modify "Buyer" to "Payee". Add the element note: "Refer to "N1 Segment (Heading)" table for usage and values."

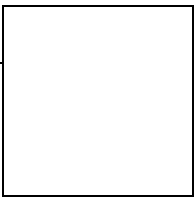
Heading N1 Loop, REF Segment: Add segment notes: "For GISB, this segment is business conditional."

Heading N1 Loop, REF Segment, REF01 Element: Add code value "EM" (Electronic Payment Reference Number).

Heading N1 Loop, REF Segment, REF02 Element: Mark element as "Must Use".

Detail DTM Segment, DTM01: Modify "Refer to "DTM Segment (Detail - HL03 = '1B')" table for usage." to "Refer to "DTM Segment (Detail - HL03 = '1B')" table for usage and values."

Detail DTM Segment, DTM01: Remove references to "051" and "052" code values. (Note: They are contained in DTM Transaction Set Table.)



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Detail DTM Segment, DTM06: Modify “Refer to “DTM Segment (Detail - HL03 = ‘1B’)” table for usage.” to “Refer to “DTM Segment (Detail - HL03 = ‘1B’)” table for usage and values.”

Detail DTM Segment, DTM06: Modify “Beginning Transaction Date/Beginning Transaction Time, Ending Transaction Date/Ending Transaction Time” to “Beginning Transaction Date, Beginning Transaction Time, Ending Transaction Date, Ending Transaction Time”.

Detail DTM Segment, DTM05: Modify “D8” code value note from “This code designates the first “gas day” through the last “gas day” on which the transaction occurred.” to

“When used with Beginning Transaction Date, this code designates the "gas day" on which the transaction is to be initiated.

When used with Ending Transaction Date, this code designates the "gas day" on which the transaction is to finish. For example, a transaction through the last day of August 1998 would be stated as 19980831.”

Detail DTM Segment, DTM05: Modify “DT” code value note from “This code designates the instance in time when the transaction began through the instance in time when transaction ended.” to

“When used with Beginning Transaction Date and Beginning Transaction Time, this code designates the instance in time when the transaction is to be initiated.

When used with Ending Transaction Date and Ending Transaction Time, this code designates the instance in time when the transaction is to finish. For example, a transaction through the last day of August 1998 would be stated as 199809010900.”

Sub-detail NMI Segment, N104 Element: Add the element note: “Refer to “N1 Segment (Sub-detail - IT1 Loop)” table for usage and values.

Transaction Set Tables

“REF Segment (Heading)” table: change column heading “Element Name” to “Element Name (REF02)”

“N1 Segment (Heading)” table: change column heading “Element Name” to “Element Name (N104)”

“DTM Segment (Detail - HL03 = ‘1B’)” table: change column heading “Element Name” to “Element Name (DTM06)”

“DTM Segment (Detail - HL03 = ‘1B’)” table: add fourth column: “DTM05”, with values “D8” and “DT” for both rows in the table

*Includes modifications from R96121A5, which are still pending in the GISB process.

4. SUPPORTING DOCUMENTATION

a. Description of Request:

See original request.

**b. Description of Recommendation:
Technical Subcommittee**

Sense of the Room: April 21, 1998 4 In Favor 0 Opposed

Segment Check (if applicable):

In Favor: End-Users LDCs Pipelines Producers Services

Opposed: End-Users LDCs Pipelines Producers Services



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c. Business Purpose:

To create Year 2000 Compliant Transportation/Sales Invoice and Service Requester Level Charge/
Allowance Invoice EDI Transaction Sets.

d. Commentary/Rationale of Subcommittee(s)/Task Force(s):

DATA ELEMENT CROSS REFERENCE TO ASC X12

Usage Codes: M - Mandatory, C - Conditional, SO - Sender's Option, BC - Business Conditional, MA - Mutually Agreeable, nu - not used

Heading:

Segment	Usage	Segment Name/GISB Data Element Name
ST	M	Transaction Set Header
BIG	M	Invoice Date
	M	Invoice Identifier
	MA	Previous Invoice Identifier
CUR	BC	Currency
	BC	Exchange Rate
	BC	Effective Exchange Date
REF	SO	Account Number
REF	BC	Tax Identification Code
PER	MA	Contact Person
ITD	M	Net Due Date
	BC	Electronic Funds Transfer Due Date
N1	MA	Service Requester
N1	M	Payee
N1	M	Billable Party (Payer)
N1	SO	Remittance Address
N3	SO	Remittance Address
N4	SO	Remittance Address
REF	BC	Electronic Funds Transfer Address

Detail:

Segment	Usage	Segment Name/GISB Data Element Name
HL	M	Hierarchical Level - Contract
LX	M	Assigned Number
SI	M	Service Requester Contract
DTM	M	Beginning Transaction Date
	M	Beginning Transaction Time
	M	Ending Transaction Date
	M	Ending Transaction Time

Sub-Detail:

Segment	Usage	Segment Name/GISB Data Element Name
HL	M	Hierarchical Level - Line Detail
LX	M	Line Number
SI	M	Service Code
	M	Location Indicator
	M	Charge Indicator
	M	Transaction Type
	BC	Price Tier
	MA	Accounting Adjustment Method
	MA	Charge Type
	MA	Package ID
	MA	Replacement Release Code
	C	Associated Contract
	MA	Downstream Contract Identifier
	MA	Upstream Contract Identifier
	MA	Capacity Type Indicator
ITA	M	Amount Due
IT1	C	Quantity
	C	Unit Price
NM1	C	Delivery Location
NM1	C	Receipt Location
NM1	C	Delivery Zone
NM1	C	Receipt Zone
NM1	C	Replacement Party Identifier
NM1	MA	Downstream Identifier Code
NM1	MA	Upstream Identifier Code

Detail:

Segment	Usage	Segment Name/GISB Data Element Name
HL	SO	Hierarchical Level - Service Requester Level Charges/Allowances
ITA	M	Line Number
	SO	Service Requester Level Charge/Allowance Amount
	SO	Service Requester Level Accounting Adjustment Method
	C	Service Requester Level Charge/Allowance Amount Descriptor
DTM	C	Charge/Allowance Period

Summary:

Segment	Usage	Segment Name/GISB Data Element Name
TDS	M	Invoice Total Amount
CTT	M	Transaction Totals
SE	M	Transaction Set Trailer

SAMPLE ASC X12 TRANSACTION

ST*811*123456789
BIG*960313*501996
ITD*****960323
N1*PE**1*808300594
N1*PR**1*508969989
HL*001**IB*1
LX*011
SI*AP*CR*K1234
DTM*051*****DT*199602010900
DTM*052*****DT*199602020900
HL*101*001*9
LX*111
SI*AP*SC*FT*LI*PRXXXXXX*TT*01
ITA*C***ZZ***1851
IT1**150*BZ*.1234
NM1*M2*3*****29*111111111
HL*102*001*9
LX*121
SI*AP*SC*FT*LI*XXPDXXX*TT*01
ITA*C***ZZ***1234
IT1**100*BZ*.1234
NM1*MQ*3*****29*211111111
HL*103*001*9
LX*131
SI*AP*SC*FT*LI*XXPDXXX*TT*01
ITA*C***ZZ***616
IT1**50*BZ*.1234
NM1*MQ*3*****29*222222222
TDS*3701
CTT*1
SE*31*123456789



TRANSACTION SET TABLES

REF Segment (Heading)

Element Name (REF02)	Usage	REF01	REF02 Description
Account Number	SO	11	Account Number
Tax Identification Code	BC1	TJ	Taxpayer ID Number

Usage:

BC1 Mandatory when gas crosses from Canada into the United States.

N1 Segment (Heading)

Element Name (N104)	Usage	N101	N103
Service Requester	MA	78	1
Payee	M	PE	1
Billable Party (Payer)	M	PR	1
Remittance Address	SO	RI	1

DTM Segment (Detail - HL03 = 'IB')

Element Name (DTM06)	Usage	DTM01	DTM05
Beginning Transaction Date/Beginning Transaction Time	M	051	D8 DT
Ending Transaction Date/Ending Transaction Time	M	052	D8 DT

SI 1000/234 Pairs (Sub-detail - HL03 = '9')

Element Name	Usage	Elem 1000	Elem 234	Description
Service Code	M	SC	FT IT 7C FS IS 7S PL AR AD NN SF FL IL OB IB PK SN TC MB PT OT	Firm Transportation Interruptible Transportation 7(C) Transportation Firm Storage Interruptible Storage 7(C) Storage Pooling Advance Receipts Advance Deliveries No Notice Transportation Small Customer Firm Transportation Firm Sales Interruptible Sales Operational Balancing Imbalance Settlement Parking and Loaning No Notice Service Small Customers Transition Costs Market Balancing Service Plant Thermal Reduction Other
Location Indicator	M	LI	PRXXXXXX PRPDXXXX PRPDZRXX PRPDXXZD PRPDZRZD PRXXZRXX PRXXXXZD PRXXZRZD XXPDXXXX XXPDZRXX XXPDXXZD XXPDZRZD XXXXZRXX XXXXZRZD XXXXXXZD XXXXXXZD	Receipt point only Receipt point and delivery point Receipt point, delivery point, and receipt zone Receipt point, delivery point, and delivery zone Receipt point, delivery point, receipt zone, and delivery zone Receipt point and receipt zone Receipt point and delivery zone Receipt point, receipt zone, and delivery zone Delivery point only Delivery point and receipt zone Delivery point and delivery zone Delivery point, receipt zone, and delivery zone Receipt zone only Receipt zone and delivery zone Delivery zone only No point or zone information
Charge Indicator	M	CI	R D	Receipt Delivery

Element Name	Usage	Elem 1000	Elem 234	Description
Price Tier	BC1	PT	T1 T2 T3 T4 T5	Tier 1 - Lowest Pricing Range Tier 2 Tier 3 to Tier 4 Tier 5 - Highest Pricing Range
Upstream Contract Identifier	MA	UK		Upstream Contract Identifier
Capacity Type Indicator	MA	CT	PP PS SP SS IT TP TS	Primary to Primary Primary to Secondary Secondary to Primary Secondary to Secondary Interruptible Tertiary to Primary Tertiary to Secondary
Downstream Contract Identifier	MA	DK		Downstream Contract Identifier
Accounting Adjustment Method	MA	AT	REV RES NET	Reversal Restatement Net
Charge Type	MA	CG	ADM ACA AOS ARC BCO BCP CCC CCG CMP CO2 COF COG COM COT CRR CRS DBC DBS DNP DEH EDF EST ETD FCR	Administrative Fee FERC published rate to recover admin costs Authorized Overrun Asset Reduction Sales Commodity Balancing Cash Outs Balancing Cash Out Penalties Capacity Constraint Credit Customer Charge Compression Charge CO2 Charge Fuel Charge Cost of Gas Sales Commodity Transportation Commodity Canadian Resolution Reservation Canadian Resolution Surcharge Commodity Direct Bill Daily Balancing Service Demand to Non-Primary Points Dehydration Charge Exchange Differential Service Establishment Charge Extended Delivery Fuel Credit

Element Name	Usage	Elem 1000	Elem 234	Description
			FOC	Facility Outage Credit
			FSR	Firm Settlement Reservation
			FTR	Firm Transportation Charge
			FVR	Fuel Volumes Retained
			GAF	Gathering Fuel
			GAO	Gathering Charge - Overrun
			GAR	Gathering Charge - Reservation
			GAT	Gathering Charge - Usage
			GLU	Gas Lost and Unaccounted For Charge
			GRH	Gas Research Institute Funding Fee - High Load
			GRL	Gas Research Institute Funding Fee - Low Load
			GRS	Gas Research Institute Funding Fee - Small Customer
			GSC	GSR Commodity
			GSR	GSR Reservation
			INT	Interest Charge
			IPU	Imbalance Penalty Under Volume
			ISC	Interruptible Settlement Commodity
			LIS	Low Income Surcharge
			LPC	Late Payment Charge
			MC1	Miscellaneous Commodity Surcharges
			MC2	Miscellaneous Commodity Cost Recovery Surcharges for Tracking
			MIS	Miscellaneous Charge
			MKT	Marketing Fee
			MR1	Miscellaneous Reservation Surcharges
			MR2	Miscellaneous Reservation Cost Recovery Surcharges for Tracking
			MSC	Miscellaneous Stranded Costs - Commodity
			MSR	Miscellaneous Stranded Costs - Reservation
			NPP	Non-Performance Penalty
			OCC	Off-system Capacity Charge
			O94	Order 94 - Flat Charge
			PAL	Parking & Loaning Charge
			PRC	Processing Charge
			PRE	Prepayment
			PRF	Processing Fuel Charge
			PTR	Plant Thermal Reduction
			RC1	Released Capacity - Demand Credit
			RC2	Released Capacity - Reservation Credit
			RD1	Reservation/Demand D1
			RD2	Reservation/Demand D2
			RD4	Reservation/Demand with Surcharges

Element Name	Usage	Elem 1000	Elem 234	Description
			RDF	Reservation Deliverability - Field
			RDM	Reservation Deliverability - Market
			R3A	Reservation/Demand - Market Access Capacity
			R3F	Reservation/Demand - Field Capacity
			R3M	Reservation/Demand - Market Zone Mileage
			REG	Pass through of fees paid on behalf of the customer for regulatory charges
			RSA	Risk Sharing Amounts - Capacity Turnback
			RSC	Reimbursement - Interruptible Revenue Allocation
			SBC	System Balancing Charge
			SCC	Stranded Transportation Cost - Commodity
			SCP	Scheduling Penalties
			SCR	Stranded Transportation Cost - Reservation
			SCY	Storage Inventory Cycling Charge
			SFW	Storage Facility Write Down
			SIC	Storage Inventory Charge
			SIO	Storage Injection Overrun
			SIV	Firm Storage Inventory Charge
			SRF	Sales Reservation Fee
			STC	Scheduling Tolerance Charge
			STF	Storage Fuel Charge
			STI	Storage Injections Charge
			STR	Storage Reservation Charge
			STW	Storage Withdrawal Charge
			SWO	Storage Withdrawal Overrun
			TAO	Transmission Market Access Overrun
			TFO	Transmission Field Overrun
			TMO	Transmission Market Overrun
			TPF	Take-or-Pay Fixed Charge
			TPS	Take-or-Pay Surcharge
			TRC	Transportation Reimbursement Credit
			TSA	Terminated Sales Commodity
			TSC	Target Sales Charge
			TXR	Tax Reimbursement
			UGP	Unauthorized Gas Penalty
			UOP	Use or Pay (Transport-Take or Pay)
			UOS	Unauthorized Overrun Charges
			UPC	Unrecovered PGA Costs - Commodity
			UPR	Unrecovered PGA Costs - Reservation
			VGR	Volumetric GRI
			VRA	Volumetric Relinquishments and Acquisitions
			VRC	Volumetric Relinquishment GRI Credit
Package ID	MA	PG		Package ID

Element Name	Usage	Elem 1000	Elem 234	Description
Transaction Type	M	TT	01	Current Business (Default)
			02	Authorized Contract Overrun
			03	Imbalance Payback from Transportation Service Provider
			05	Plant Thermal Reduction
			06	Storage Injection
			07	Storage Withdrawal
			08	Pooling
			09	Imbalance Transfer
			10	Cashout
			11	Storage Inventory Transfer
			12	Authorized Injection Overrun
			13	Authorized Withdrawal Overrun
			14	Extended Receipt/Delivery Service
			26	Park
			27	Park Withdrawal
			28	Loan
			29	Loan Payback
			31	Meter Bounce
			41	Storage Inventory Cycling
			49	Gathering
50	Unauthorized Overrun			
51	Capacity Release			
52	TSP Deficiency Credit			
53	SR Deficiency Credit			
Replacement Release Code	MA	RR		Replacement Release Code
Associated Contract	C1	AK		Associated Contract

Usage:

BC1 Usage is determined by Service Provider's rate structure.

C1 Mandatory when sent in the nomination and when Associated Contract is not used for storage balancing.

NM1 Segment (Sub-detail - IT1 loop)

Element Name (NM109)	Usage	NM101	NM108	NM108 Description
Delivery Location	C1	MQ	29 ZY	GISB/PI Data Reference Number Transportation Service Provider's proprietary code (see n1)
Receipt Location	C2	M2	29 ZY	GISB/PI Data Reference Number Transportation Service Provider's proprietary code (see n1)
Delivery Zone	C3	DZ	ZN	Zone
Receipt Zone	C4	RZ	ZN	Zone
Downstream Identifier Code	MA	DW	1	D-U-N-S Number, Dun & Bradstreet
Upstream Identifier Code	MA	US	1	D-U-N-S Number, Dun & Bradstreet
Replacement Party Identifier	C5	BY	1	D-U-N-S Number, Dun & Bradstreet

Notes:

- n1 When a Transportation Service Provider's proprietary location code is employed pursuant to this standard, the parties agree that nominations, confirmations, scheduled quantities, and capacity release documents employing such code should be for one gas day at a time, and used only until there is a verified common code for the point associated with the proprietary location code. This would include daily nominations over a weekend. Within two months following the availability of the location the parties should employ the common code and no longer employ the proprietary code for identifying such location in the datasets related to the identified standards.

Usage:

- C1 Mandatory when Location Indicator specifies that delivery point information is provided (SI pair 1000 = 'LI', 234 = 'PRPDXXXX', 'PRPDZRXX', 'PRPDXXZD', 'PRPDXXZD', 'XPDXXXX', 'XPDZRXX', 'XPDXXZD' or 'XPDZRZD').
- C2 Mandatory when Location Indicator specifies that receipt point information is provided (SI pair 1000 = 'LI', 234 = 'PRXXXXXX', 'PRPDXXXX', 'PRPDZRXX', 'PRPDXXZD', 'PRPDZRZD', 'PRXXZRXX', 'PRXXXXZD' or 'PRXXZRZD').
- C3 Mandatory when Location Indicator specifies that delivery zone information is provided (SI pair 1000 = 'LI', 234 = 'PRPDXXZD', 'PRPDZRZD', 'PRXXXXZD', 'PRXXZRZD', 'XPDXXZD', 'XPDZRZD', 'XXXXZRZD' or 'XXXXXXZD').
- C4 Mandatory when Location Indicator specifies that receipt zone information is provided (SI pair 1000 = 'LI', 234 = 'PRPDZRXX', 'PRPDZRZD', 'PRXXZRXX', 'PRXXZRZD', 'XPDZRXX', 'XPDZRZD', 'XXXXZRXX' or 'XXXXZRZD').
- C5 Mandatory for capacity releases.

811 Consolidated Service Invoice/Statement

Functional Group ID=**CI**

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BIG	Beginning Segment for Invoice	M	1		
	040	CUR	Currency	O	1		
	050	REF	Reference Identification	O	>1		
	060	PER	Administrative Communications Contact	O	3		
Must Use	070	ITD	Terms of Sale/Deferred Terms of Sale	O	5		
						LOOP ID - N1	>1
Must Use	100	N1	Name	O	1		
	120	N3	Address Information	O	2		
	130	N4	Geographic Location	O	1		
	140	REF	Reference Identification	O	12		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
						LOOP ID - HL	>1
Must Use	010	HL	Hierarchical Level	M	1		n1
						LOOP ID - LX	>1
Must Use	020	LX	Assigned Number	O	1		
Must Use	030	SI	Service Characteristic Identification	O	8		
Must Use	070	DTM	Date/Time Reference	O	8		
						LOOP ID - HL	>1
Must Use	760	HL	Hierarchical Level	O	1		
						LOOP ID - LX	>1
Must Use	770	LX	Assigned Number	O	1		
Must Use	780	SI	Service Characteristic Identification	O	2		
						LOOP ID - ITA	>1
Must Use	790	ITA	Allowance, Charge or Service	O	1		
						LOOP ID - IT1	>1
	800	IT1	Baseline Item Data (Invoice)	O	1		
						LOOP ID - NM1	>1
	810	NM1	Individual or Organizational Name	O	1		
						LOOP ID - HL	>1
	820	HL	Hierarchical Level	O	1		

		LOOP ID - ITA			>1
830	ITA	Allowance, Charge or Service	O	1	
840	DTM	Date/Time Reference	O	1	

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	TDS	Total Monetary Value Summary	M	1		
Must Use	115	CTT	Transaction Totals	O	1		n2
Must Use	120	SE	Transaction Set Trailer	M	1		

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading:
Usage: Mandatory
Max Use: 1

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			811 Consolidated Service Invoice/Statement	
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading:
Usage: Mandatory
Max Use: 1

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
Must Use	BIG01	373	Date <i>Invoice Date</i>	M DT 8/8
Must Use	BIG02	76	Invoice Number <i>Invoice Identifier</i>	M AN 1/22
	BIG10	76	Invoice Number <i>Previous Invoice Identifier</i>	O AN 1/22

For GISB, this element is mutually agreed.

Segment: **CUR** Currency

Position: 040

Loop:

Level: Heading:

Usage: Optional

Max Use: 1

Notes: *For GISB, this segment is business conditional. It is sent if the billing party and the remitting party are transacting business under different currencies.*

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	CUR01	98 Entity Identifier Code	M ID 2/3
		BY Buying Party (Purchaser)	
Must Use	CUR02	100 Currency Code	M ID 3/3
		<i>Currency</i>	
		CAD Canadian Dollars	
		MXN Mexican New Peso	
		USD US Dollars	
Must Use	CUR03	280 Exchange Rate	O R 4/6
		<i>Exchange Rate</i>	
Must Use	CUR07	374 Date/Time Qualifier	X ID 3/3
		007 Effective	
Must Use	CUR08	373 Date	O DT 8/8
		<i>Effective Exchange Date</i>	

Segment: **REF** Reference Identification
Position: 050
Loop:
Level: Heading:
Usage: Optional
Max Use: >1

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier <i>Refer to "REF Segment (Heading)" table for usage and values.</i>	M ID 2/3
Must Use	REF02	127	Reference Identification <i>Refer to "REF Segment (Heading)" table for usage and values.</i> <i>Account Number, Tax Identification Code</i>	X AN 1/30

Segment: **PER** Administrative Communications Contact
Position: 060
Loop:
Level: Heading:
Usage: Optional
Max Use: 3
Notes: For GISB, this segment is mutually agreed.

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	PER01	366	Contact Function Code IC Information Contact	M ID 2/2
Must Use	PER02	93	Name Contact Person (Name)	O AN 1/35
Must Use	PER03	365	Communication Number Qualifier TE Telephone	X ID 2/2
Must Use	PER04	364	Communication Number Contact Person (Phone)	X AN 1/80

Segment: **ITD** Terms of Sale/Deferred Terms of Sale
Position: 070
Loop:
Level: Heading:
Usage: Optional (Must Use)
Max Use: 5
Notes: For GISB, this segment is mandatory.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use	ITD06	446	Terms Net Due Date	O DT 8/8
			<i>Net Due Date</i>	
	ITD09	388	Terms Deferred Due Date	O DT 8/8
			<i>Electronic Funds Transfer Due Date</i>	
			<i>For GISB, this element is business conditional.</i>	
	ITD11	342	Percent of Invoice Payable	X R 1/5
			<i>For GISB, when Electronic Funds Transfer Due Date is sent in ITD09, send '100' in ITD11.</i>	

Segment: **N1** Name
Position: 100
Loop: N1 Optional (Must Use)
Level: Heading:
Usage: Optional (Must Use)
Max Use: 1
Notes: For GISB, this segment is mandatory.

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Must Use	N101	98 Entity Identifier Code <i>Refer to "N1 Segment (Heading)" table for usage and values.</i>	M ID 2/3
Must Use	N103	66 Identification Code Qualifier <i>Refer to "N1 Segment (Heading)" table for usage and values.</i>	X ID 1/2
Must Use	N104	67 Identification Code <i>Refer to "N1 Segment (Heading)" table for usage and values.</i> <i>Service Requester, Payee, Billable Party (Payer), Remittance Address</i>	X AN 2/17

Segment: **N3** Address Information
Position: 120
Loop: N1 Optional (Must Use)
Level: Heading:
Usage: Optional
Max Use: 2
Notes: *This segment is used to specify the remittance address.*
For GISB, this segment is sender's option.

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	N301	166 Address Information <i>Remittance Address</i>	M AN 1/35
	N302	166 Address Information <i>Remittance Address</i>	O AN 1/35

Segment: **N4** Geographic Location
Position: 130
Loop: N1 Optional (Must Use)
Level: Heading:
Usage: Optional
Max Use: 1
Notes: *This segment is used to specify the remittance address.*
For GISB, this segment is sender's option.

Data Element Summary

Ref.	Data		Attributes
Des.	Element	Name	
N401	19	City Name	O AN 2/30
N402	156	State or Province Code	O ID 2/2
N403	116	Postal Code	O ID 3/9
N404	26	Country Code	O ID 2/3

Segment: **REF** Reference Identification
Position: 140
Loop: N1 Optional (Must Use)
Level: Heading:
Usage: Optional
Max Use: 12
Notes: *For GISB, this segment is business conditional.*

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	REF01	128 Reference Identification Qualifier	M ID 2/3
		EM Electronic Payment Reference Number	
Must Use	REF02	127 Reference Identification	X AN 1/30
		<i>Electronic Funds Transfer Address</i>	

Segment: **HL** Hierarchical Level
Position: 010
Loop: HL Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 1
Notes: *This segment is the beginning of the loop used for contract level information.*

Data Element Summary

	Ref.	Data			
	Des.	Element	Name		Attributes
Must Use	HL01	628	Hierarchical ID Number		M AN 1/12
Must Use	HL03	735	Hierarchical Level Code		M ID 1/2
			IB Contract		
Must Use	HL04	736	Hierarchical Child Code		O ID 1/1
		1	Additional Subordinate HL Data Segment in This Hierarchical Structure.		

Segment: **LX** Assigned Number
Position: 020
Loop: LX Optional (Must Use)
Level: Detail:
Usage: Optional (Must Use)
Max Use: 1
Notes: *For GISB, this segment is mandatory.*

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	LX01	554	Assigned Number	M N0 1/6

Segment: **SI** **Service Characteristic Identification**
Position: 030
Loop: LX Optional (Must Use)
Level: Detail:
Usage: Optional (Must Use)
Max Use: 8
Notes: *For GISB, this segment is mandatory.*

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	SI01	559	Agency Qualifier Code	M ID 2/2
			AP American Petroleum Institute	
Must Use	SI02	1000	Service Characteristics Qualifier	M AN 2/2
			CR Service Requester Contract	
Must Use	SI03	234	Product/Service ID	M AN 1/30
			<i>Service Requester Contract</i>	

Segment: **DTM** Date/Time Reference

Position: 070

Loop: LX Optional (Must Use)

Level: Detail:

Usage: Optional (Must Use)

Max Use: 8

Notes: For GISB, this segment is mandatory.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			<i>Refer to "DTM Segment (Detail - HL03 = '1B')" table for usage and values.</i>	
Must Use	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3
		D8	Date Expressed in Format CCYYMMDD	
			When used with Beginning Transaction Date, this code designates the "gas day" on which the transaction is to be initiated.	
			When used with Ending Transaction Date, this code designates the "gas day" on which the transaction is to finish. For example, a transaction through the last day of August 1998 would be stated as 19980831.	
		DT	Date and Time Expressed in Format CCYYMMDDHHMM	
			When used with Beginning Transaction Date and Beginning Transaction Time, this code designates the instance in time when the transaction is to be initiated.	
			When used with Ending Transaction Date and Ending Transaction Time, this code designates the instance in time when the transaction is to finish. For example, a transaction through the last day of August 1998 would be stated as 199809010900.	
Must Use	DTM06	1251	Date Time Period	X AN 1/35
			<i>Refer to "DTM Segment (Detail - HL03 = '1B')" table for usage and values.</i>	
			<i>Beginning Transaction Date, Beginning Transaction Time, Ending Transaction Date, Ending Transaction Time</i>	

Segment: **HL Hierarchical Level**

Position: 760

Loop: HL Optional (Must Use)

Level: Detail:

Usage: Optional (Must Use)

Max Use: 1

Notes: *This segment is the beginning of the line item detail loop. For GISB, this segment is mandatory. This HL loop is subordinate to the contract level loop (HL03 = 'IB') and is not related to the service requester level charges/allowances loop (HL03 = 'CH').*

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	HL01	628	Hierarchical ID Number <i>Sequential line item number.</i>	M AN 1/12
Must Use	HL02	734	Hierarchical Parent ID Number <i>This element contains the sequential line item number (HL01) of the Contract level loop that this detail loop is subordinate to.</i>	O AN 1/12
Must Use	HL03	735	Hierarchical Level Code	M ID 1/2
		9	Line Detail	

Segment: **LX** Assigned Number
Position: 770
Loop: LX Optional (Must Use)
Level: Detail:
Usage: Optional (Must Use)
Max Use: 1
Notes: *For GISB, this segment is mandatory.*

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	LX01	554	Assigned Number <i>Line Number</i>	M N0 1/6

Segment: **SI Service Characteristic Identification**
Position: 780
Loop: LX Optional (Must Use)
Level: Detail:
Usage: Optional (Must Use)
Max Use: 2
Notes: For GISB, this segment is mandatory.

The SI segment accommodates up to 10 1000/234 pairs. Multiple SI segments are required when sending more than 10 1000/234 pairs.

Data Element Summary

Ref.	Data	Attributes
<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	SI01 559 Agency Qualifier Code	M ID 2/2
	AP American Petroleum Institute	
Must Use	SI02 1000 Service Characteristics Qualifier	M AN 2/2
	<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>	
Must Use	SI03 234 Product/Service ID	M AN 1/30
	<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>	
	<i>Service Code, Location Indicator, Charge Indicator, Price Tier, Accounting Adjustment Method, Charge Type, Package ID, Replacement Release Code, Associated Contract, Transaction Type, Downstream Contract Identifier, Upstream Contract Identifier, Capacity Type Indicator</i>	
	<i>Note: Each data element may occur in one of the 1000/234 pairs per the usage in the specified table. The data elements may occur in any order.</i>	
Must Use	SI04 1000 Service Characteristics Qualifier	X AN 2/2
	<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>	
Must Use	SI05 234 Product/Service ID	X AN 1/30
	<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>	
Must Use	SI06 1000 Service Characteristics Qualifier	X AN 2/2
	<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>	
Must Use	SI07 234 Product/Service ID	X AN 1/30
	<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>	
Must Use	SI08 1000 Service Characteristics Qualifier	X AN 2/2
	<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for</i>	

			<i>usage and values.</i>		
Must Use	SI09	234	Product/Service ID	X	AN 1/30
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		
	SI10	1000	Service Characteristics Qualifier	X	AN 2/2
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		
	SI11	234	Product/Service ID	X	AN 1/30
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		
	SI12	1000	Service Characteristics Qualifier	X	AN 2/2
	SI13	234	Product/Service ID	X	AN 1/30
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		
	SI14	1000	Service Characteristics Qualifier	X	AN 2/2
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		
	SI15	234	Product/Service ID	X	AN 1/30
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		
	SI16	1000	Service Characteristics Qualifier	X	AN 2/2
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		
	SI17	234	Product/Service ID	X	AN 1/30
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		
	SI18	1000	Service Characteristics Qualifier	X	AN 2/2
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		
	SI19	234	Product/Service ID	X	AN 1/30
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		
	SI20	1000	Service Characteristics Qualifier	X	AN 2/2
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		
	SI21	234	Product/Service ID	X	AN 1/30
			<i>Refer to "SI 1000/234 Pairs (Sub-detail - HL03 = '9') table for usage and values.</i>		

Segment: **ITA** Allowance, Charge or Service
Position: 790
Loop: ITA Optional (Must Use)
Level: Detail:
Usage: Optional (Must Use)
Max Use: 1
Notes: *For GISB, this segment is mandatory.*

Data Element Summary

	Ref.	Data			
	Des.	Element	Name		Attributes
Must Use	ITA01	248	Allowance or Charge Indicator		M ID 1/1
			C Charge		
Must Use	ITA04	331	Allowance or Charge Method of Handling Code		M ID 2/2
			ZZ Mutually Defined		
Must Use	ITA07	360	Allowance or Charge Total Amount		O N2 1/9
			<i>Amount Due</i>		

Segment: **IT1** **Baseline Item Data (Invoice)**
Position: 800
Loop: IT1 Optional
Level: Detail:
Usage: Optional
Max Use: 1
Notes: *For GISB, this segment is conditional.*

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	IT102	358	Quantity Invoiced <i>Quantity</i>	X R 1/10
Must Use	IT103	355	Unit or Basis for Measurement Code	X ID 2/2
			BZ Million BTU's	
			G8 Gigacalories	
			GV Gigajoules	
			UL Unitless	
Must Use	IT104	212	Unit Price <i>Unit Price</i>	X R 1/14

Segment: **NM1** Individual or Organizational Name
Position: 810
Loop: NM1 Optional
Level: Detail:
Usage: Optional
Max Use: 1
Notes: For GISB, this segment is conditional.

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Must Use	NM101	98 Entity Identifier Code <i>Refer to "NM1 Segment (Sub-detail - IT1 Loop)" table for usage and values.</i>	M ID 2/3
Must Use	NM102	1065 Entity Type Qualifier 3 Unknown	M ID 1/1
Must Use	NM108	66 Identification Code Qualifier <i>Refer to "NM1 Segment (Sub-detail - IT1 Loop)" table for usage and values.</i>	X ID 1/2
Must Use	NM109	67 Identification Code <i>Refer to "NM1 Segment (Sub-detail - IT1 Loop)" table for usage and values.</i>	X AN 2/17

Delivery Location, Receipt Location, Delivery Zone, Receipt Zone, Replacement Party Identifier, Downstream Identifier Code, Upstream Identifier Code

Segment: **HL Hierarchical Level**

Position: 820

Loop: HL Optional

Level: Detail:

Usage: Optional

Max Use: 1

Notes: *This segment is the beginning of the loop used for service requester level charges/allowances. For GISB, this segment is sender's option. When sent, the corresponding ITA segment is required.*

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element Name</u>	<u>Attributes</u>
Must Use	HL01	628 Hierarchical ID Number <i>Sequential line item number.</i>	M AN 1/12
Must Use	HL03	735 Hierarchical Level Code CH Contractholder Service Requester Level	M ID 1/2

Segment: **ITA** Allowance, Charge or Service
Position: 830
Loop: ITA Optional
Level: Detail:
Usage: Optional
Max Use: 1
Notes: For GISB, this segment is sender's option. It is required when the service requester level charges/allowances loop (HL03 = 'CH') is sent.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ITA01	248	Allowance or Charge Indicator		M ID 1/1
			A	Allowance	
			C	Charge	
Must Use	ITA04	331	Allowance or Charge Method of Handling Code		M ID 2/2
			ZZ	Mutually Defined	
Must Use	ITA05	341	Allowance or Charge Number		O AN 1/6
			<i>Line Number</i>		
			<i>The line number should sequentially follow the Line Number in the sub-detail.</i>		
Must Use	ITA07	360	Allowance or Charge Total Amount		O N2 1/9
			<i>Service Requester Level Charge/Allowance Amount</i>		
	ITA13	352	Description		X AN 1/80
			<i>Service Requester Level Accounting Adjustment Method</i>		
			<i>For GISB, this element is sender's option.</i>		
			NET	Net	
			RES	Restatement	
			REV	Reversal	
Must Use	ITA14	150	Special Charge or Allowance Code		X ID 3/3
			<i>Service Requester Level Charge/Allowance Amount Descriptor</i>		
			<i>For GISB, this element is conditional.</i>		
			LPC	Late payment charge	
				Interest Charges	
			PRB	Prior Balance	
				Imbalance Charges	
			RFD	Refund	
				Gas Research Institute Refunds	

Segment: **DTM** Date/Time Reference
Position: 840
Loop: ITA Optional
Level: Detail:
Usage: Optional
Max Use: 1
Notes: For GISB, this segment is conditional.

Data Element Summary

	Ref.	Data			Attributes
	Des.	Element	Name		
Must Use	DTM01	374	Date/Time Qualifier		M ID 3/3
			007	Effective	
Must Use	DTM05	1250	Date Time Period Format Qualifier		X ID 2/3
			CM	Date in Format CCYYMM	
			D8	Date Expressed in Format CCYYMMDD	
			RD5	Range of Years and Months Expressed in Format CCYYMM-CCYYMM	
			RD8	Range of Dates Expressed in Format CCYYMMDD-CCYYMMDD	
Must Use	DTM06	1251	Date Time Period		X AN 1/35
			<i>Charge/Allowance Period</i>		

Segment: **TDS** Total Monetary Value Summary
Position: 010
Loop:
Level: Summary:
Usage: Mandatory
Max Use: 1

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	TDS01	610	Amount <i>Invoice Total Amount</i>	M N2 1/10

Segment: **CTT** Transaction Totals
Position: 115
Loop:
Level: Summary:
Usage: Optional (Must Use)
Max Use: 1
Notes: *For GISB, this segment is mandatory.*

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
Must Use	CTT01 354 Number of Line Items	M N0 1/6
	<i>The count of the contract level HL loops and service requester level charges/allowances HL loops.</i>	

Segment: **SE** Transaction Set Trailer
Position: 120
Loop:
Level: Summary:
Usage: Mandatory
Max Use: 1

Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	SE01	96	Number of Included Segments	M N0 1/10
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9

DATA ELEMENT CROSS REFERENCE TO ASC X12

Usage Codes: M - Mandatory, C - Conditional, SO - Sender's Option,
BC - Business Conditional, MA - Mutually Agreeable, nu - not used

Heading:

Segment	Usage	Segment Name/GISB Data Element Name
ST	M	Transaction Set Header
BIG	M	Invoice Date
	M	Invoice Identifier
	MA	Previous Invoice Identifier
CUR	BC	Currency
	BC	Exchange Rate
	BC	Effective Exchange Date
REF	SO	Account Number
REF	BC	Tax Identification Code
PER	MA	Contact Person
ITD	M	Net Due Date
	BC	Electronic Funds Transfer Due Date
N1	M	Service Requester
N1	M	Payee
N1	M	Billable Party (Payer)
N1	SO	Remittance Address
N3	SO	Remittance Address
N4	SO	Remittance Address
REF	BC	Electronic Funds Transfer Address

Detail:

Segment	Usage	Segment Name/GISB Data Element Name
HL	M	Hierarchical Level - Service Requester Level Charges/Allowances
ITA	M	Line Number
	M	Service Requester Level Charge/Allowance Amount
	SO	Service Requester Level Accounting Adjustment Method
	M	Service Requester Level Charge/Allowance Amount Descriptor
DTM	SO	Charge/Allowance Period

Summary:

Segment	Usage	Segment Name/GISB Data Element Name
TDS	M	Invoice Total Amount
CTT	M	Transaction Totals
SE	M	Transaction Set Trailer

SAMPLE ASC X12 TRANSACTION

ST*811*123456789
BIG*960814*841996
ITD*****960824
N1*PE**1*808300594
N1*PR**1*508969989
N1*78**1*508969989
HL*001**CH
ITA*C***ZZ*001**616*****LPC
ITA*A***ZZ*002**-100*****RFD
TDS*516
CTT*1
SE*12*123456789

TRANSACTION SET TABLES**REF Segment (Heading)**

Element Name (REF02)	Usage	REF01	REF02 Description
Account Number	SO	11	Account Number
Tax Identification Code	BC1	TJ	Taxpayer ID Number

Usage:

BC1 Mandatory when gas crosses from Canada into the United States.

N1 Segment (Heading)

Element Name (N104)	Usage	N101	N103
Service Requester	M	78	1
Payee	M	PE	1
Billable Party (Payer)	M	PR	1
Remittance Address	SO	RI	1

811 Consolidated Service Invoice/Statement

Functional Group ID=**CI**

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BIG	Beginning Segment for Invoice	M	1		
	040	CUR	Currency	O	1		
	050	REF	Reference Identification	O	>1		
	060	PER	Administrative Communications Contact	O	3		
Must Use	070	ITD	Terms of Sale/Deferred Terms of Sale	O	5		
LOOP ID - N1						>1	
Must Use	100	N1	Name	O	1		
	120	N3	Address Information	O	2		
	130	N4	Geographic Location	O	1		
	140	REF	Reference Identification	O	12		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - HL						>1	
Must Use	010	HL	Hierarchical Level	M	1		
LOOP ID - ITA						>1	
Must Use	180	ITA	Allowance, Charge or Service	O	1		
	190	DTM	Date/Time Reference	O	1		

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	TDS	Total Monetary Value Summary	M	1		
Must Use	115	CTT	Transaction Totals	O	1		n1
Must Use	120	SE	Transaction Set Trailer	M	1		

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading:
Usage: Mandatory
Max Use: 1

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	ST01	143	Transaction Set Identifier Code	M ID 3/3
			811 Consolidated Service Invoice/Statement	
Must Use	ST02	329	Transaction Set Control Number	M AN 4/9

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading:
Usage: Mandatory
Max Use: 1

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Must Use	BIG01	373 Date <i>Invoice Date</i>	M DT 8/8
Must Use	BIG02	76 Invoice Number <i>Invoice Identifier</i>	M AN 1/22
	BIG10	76 Invoice Number <i>Previous Invoice Identifier</i>	O AN 1/22

For GISB, this element is mutually agreed.

Segment: **CUR** Currency

Position: 040

Loop:

Level: Heading:

Usage: Optional

Max Use: 1

Notes: *For GISB, this segment is business conditional. It is sent if the billing party and the remitting party are transacting business under different currencies.*

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	CUR01	98 Entity Identifier Code	M ID 2/3
		BY Buying Party (Purchaser)	
Must Use	CUR02	100 Currency Code	M ID 3/3
		Currency	
		CAD Canadian Dollars	
		MXN Mexican New Peso	
		USD US Dollars	
Must Use	CUR03	280 Exchange Rate	O R 4/6
		Exchange Rate	
Must Use	CUR07	374 Date/Time Qualifier	X ID 3/3
		007 Effective	
Must Use	CUR08	373 Date	O DT 8/8
		Effective Exchange Date	

Segment: **REF** Reference Identification
Position: 050
Loop:
Level: Heading:
Usage: Optional
Max Use: >1

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier <i>Refer to "REF Segment (Heading)" table for usage and values.</i>	M ID 2/3
Must Use	REF02	127	Reference Identification <i>Refer to "REF Segment (Heading)" table for usage and values.</i> <i>Account Number, Tax Identification Code</i>	X AN 1/30

Segment: **PER** Administrative Communications Contact
Position: 060
Loop:
Level: Heading:
Usage: Optional
Max Use: 3
Notes: For GISB, this segment is mutually agreed.

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	PER01	366	Contact Function Code IC Information Contact	M ID 2/2
Must Use	PER02	93	Name Contact Person (Name)	O AN 1/35
Must Use	PER03	365	Communication Number Qualifier TE Telephone	X ID 2/2
Must Use	PER04	364	Communication Number Contact Person (Phone)	X AN 1/80

Segment: **ITD** Terms of Sale/Deferred Terms of Sale
Position: 070
Loop:
Level: Heading:
Usage: Optional (Must Use)
Max Use: 5
Notes: For GISB, this segment is mandatory.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use	ITD06	446	Terms Net Due Date <i>Net Due Date</i>	O DT 8/8
	ITD09	388	Terms Deferred Due Date <i>Electronic Funds Transfer Due Date</i>	O DT 8/8
			<i>For GISB, this element is business conditional.</i>	
	ITD11	342	Percent of Invoice Payable	X R 1/5
			<i>For GISB, when Electronic Funds Transfer Due Date is sent in ITD09, send '100' in ITD11.</i>	

Segment: **N1** Name
Position: 100
Loop: N1 Optional (Must Use)
Level: Heading:
Usage: Optional (Must Use)
Max Use: 1
Notes: *For GISB, this segment is mandatory.*

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	N101	98 Entity Identifier Code <i>Refer to "N1 Segment (Heading)" table for usage and values.</i>	M ID 2/3
Must Use	N103	66 Identification Code Qualifier <i>Refer to "N1 Segment (Heading)" table for usage and values.</i>	X ID 1/2
Must Use	N104	67 Identification Code <i>Refer to "N1 Segment (Heading)" table for usage and values.</i>	X AN 2/17

Service Requester, Payee, Billable Party (Payer), Remittance Address

Segment: **N3** Address Information
Position: 120
Loop: N1 Optional (Must Use)
Level: Heading:
Usage: Optional
Max Use: 2
Notes: *This segment is used to specify the remittance address.*

For GISB, this segment is sender's option.

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	N301	166	Address Information <i>Remittance Address</i>	M AN 1/35
	N302	166	Address Information <i>Remittance Address</i>	O AN 1/35

Segment: **N4** Geographic Location
Position: 130
Loop: N1 Optional (Must Use)
Level: Heading:
Usage: Optional
Max Use: 1
Notes: *This segment is used to specify the remittance address.*
For GISB, this segment is sender's option.

Data Element Summary

Ref.	Data		Attributes
Des.	Element	Name	
N401	19	City Name	O AN 2/30
N402	156	State or Province Code	O ID 2/2
N403	116	Postal Code	O ID 3/9
N404	26	Country Code	O ID 2/3

Segment: **REF** **Reference Identification**
Position: 140
Loop: N1 Optional (Must Use)
Level: Heading:
Usage: Optional
Max Use: 12
Notes: *For GISB, this segment is business conditional.*

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			EM Electronic Payment Reference Number	
Must Use	REF02	127	Reference Identification	X AN 1/30
			<i>Electronic Funds Transfer Address</i>	

Segment: **HL** Hierarchical Level
Position: 010
Loop: HL Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 1

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
Must Use	HL01	628 Hierarchical ID Number <i>Sequential line item number.</i>	M AN 1/12
Must Use	HL03	735 Hierarchical Level Code CH Contractholder Service Requester Level	M ID 1/2

Segment: **ITA** Allowance, Charge or Service
Position: 180
Loop: ITA Optional (Must Use)
Level: Detail:
Usage: Optional (Must Use)
Max Use: 1
Notes: For GISB, this segment is mandatory.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
Must Use	ITA01	248 Allowance or Charge Indicator	M ID 1/1
		A Allowance	
		C Charge	
Must Use	ITA04	331 Allowance or Charge Method of Handling Code	M ID 2/2
		ZZ Mutually Defined	
Must Use	ITA05	341 Allowance or Charge Number	O AN 1/6
		Line Number	
Must Use	ITA07	360 Allowance or Charge Total Amount	O N2 1/9
		Service Requester Level Charge/Allowance Amount	
	ITA13	352 Description	X AN 1/80
		Service Requester Level Accounting Adjustment Method	
		<i>For GISB, this element is sender's option.</i>	
		NET Net	
		RES Restatement	
		REV Reversal	
Must Use	ITA14	150 Special Charge or Allowance Code	X ID 3/3
		Service Requester Level Charge/Allowance Amount Descriptor	
		LPC Late payment charge	
		Interest Charges	
		PRB Prior Balance	
		Imbalance Charges	
		RFD Refund	
		Gas Research Institute Refunds	

Segment: **DTM** Date/Time Reference
Position: 190
Loop: ITA Optional (Must Use)
Level: Detail:
Usage: Optional
Max Use: 1
Notes: For GISB, this segment is sender's option.

Data Element Summary

	Ref.	Data			Attributes
	Des.	Element	Name		
Must Use	DTM01	374	Date/Time Qualifier		M ID 3/3
			007	Effective	
Must Use	DTM05	1250	Date Time Period Format Qualifier		X ID 2/3
			CM	Date in Format CCYYMM	
			D8	Date Expressed in Format CCYYMMDD	
			RD5	Range of Years and Months Expressed in Format CCYYMM-CCYYMM	
			RD8	Range of Dates Expressed in Format CCYYMMDD-CCYYMMDD	
Must Use	DTM06	1251	Date Time Period		X AN 1/35
			<i>Charge/Allowance Period</i>		

Segment: **TDS** Total Monetary Value Summary
Position: 010
Loop:
Level: Summary:
Usage: Mandatory
Max Use: 1

Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	TDS01	610	Amount <i>Invoice Total Amount</i>	M N2 1/10

Segment: **CTT** Transaction Totals
Position: 115
Loop:
Level: Summary:
Usage: Optional (Must Use)
Max Use: 1
Notes: *For GISB, this segment is mandatory.*

Data Element Summary

Ref.	Data	Attributes
<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>Attributes</u>
Must Use	CTT01 354 Number of Line Items <i>The count of the HL loops.</i>	M N0 1/6

Segment: **SE** Transaction Set Trailer
Position: 120
Loop:
Level: Summary:
Usage: Mandatory
Max Use: 1

Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	SE01	96	Number of Included Segments	M N0 1/10
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9