

Motor Fuel Tax Section EDI Implementation Guide ANSI ASC X.12 V4030

Version 1.06 July 01, 2022

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References

ASC X12	The Accredited Standards Committee Subcommittee - X12G – Government Task Group 2 (X12G/TG2) Tax Information Interchange Development TIGERS Web: <u>www.x12.org</u>
ASC X12 Standards Manual	Publications Manager, Publications Department Data Interchange Standards Association (DISA) 333 John Carlyle Street, Suite 600, Alexandria, VA 22314 Phone: 703-548-7005 FAX: 703-548-5738 Email: publications@disa.org Web: www.disa.org
FTA Uniformity Guide	Motor Fuel Tax Section, Uniformity Project Federation of Tax Administrators (FTA) 444 N. Capitol St., NW, Washington, DC 20001 Web: <u>www.taxadmin.org</u>

Chapter 1 – Introduction

Changes From Previous Version

- Page 1-7 Updated EDI and General Contact information
- Page B-51 Added Schedule Code 13K Credit or Deduction for Reduced Tax Rate

Description

The motor fuel taxpayer's inbound tax return information will follow the ANSI ASC X12 813 Electronic Filing of Tax Returns transaction set – as defined in Version 004030.

The following mapping descriptions define the standard layout and data structure of the 813.

The Department requires that all schedules attached to the filed tax returns and information reports reflect detailed information needed to perform tracking of motor fuel. The 813 transaction set is used to capture both return and schedule data.

File Naming

Format:

IA-Name-License #-ccyymm-nn.edi

- IA is the state abbreviation
- Name is the first four characters of the company name
- License # is the 9 digit license number assigned by Iowa
- Ccyymm is the reporting year and month
- Nn represents an original or amended return
 - \circ 00 for an original return
 - \circ 01 for the first amended return
 - o 02 for the second amended return
 - o etc

Example: IA-Sinc-704123456-200509-00.edi

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- "IA" the state of Iowa
- "Sinc" the first four characters of the company name
- "704123456" the license number issued by Iowa
- "200509" the reporting year and month
- "00" the file contains an original return

Important Tips

- All electronic submissions must consist of a single functional group enclosing a single 813 transaction set. Multiple 813 transactions sets within a file are not allowed.
- Multiple TOR returns within an 813 transaction set will be allowed as long as they are all for the same tax period and same license number.
- Prior period loads may be reported on the current tax period being submitted.
- The only valid value for Original Filing Option (BTI13) is 00 Original.
- The only valid value for Amended Filing Option (BTI14) is CO Corrected.
- Round to whole gallons. Round down all amounts less than .50 and round up all amounts of .50 through .99. Decimal points are not valid in the gallon fields.
- When reporting terminal codes, you must use the Internal Revenue Service terminal codes that have been assigned to every terminal and refinery in the United States. Any other terminal codes may result in errors.
- Email addresses must contain an @ symbol.
- The "tax due" in your file (TIA02 when TFS02 = S02 and TIA01 = 5005) must match the amount due calculated by the system.
- The "Total Net Reported" (TIA04 when TIA01 = 5001) must equal the sum of gross gallons (sum of TIA04 when TIA01 = 5006) reported in the file.
- The license number in BTI10 must match the license number on the screen for which you are filing.
- The tax period end date (DTM02 when DTM01 = 194) must match the tax period selected on the screens for which you are filing.
- Please make certain that the information on the tax return is correct before filing electronically.
- Please provide complete information. Do not shorten names or cities unless an abbreviation is required.
- You must enter the manifest number or bill of lading on each schedule unless reporting a summary.
- If you are a third party filer sending the return for a taxpayer, please let us know your federal employer identification number before sending a file. (The Sender ID (ISA06) and Software Provider Number (BTI12 when BTI11 is SV) are validated against a database of approved filers).
- Information required on SDR and TOR schedules: Schedule Code, Product Code, Carrier Name, Carrier FEIN, Mode, Origin Terminal Code, Seller Name, Seller FEIN, Origin State, Purchaser Name, Purchaser FEIN, Destination State, Bill of Lading Date, Bill of Lading Number, and Gross Gallons.
- Information required on CCR schedules: Same as SDR and TOR schedules with Consignor Name and Consignor FEIN required.
- The FEIN in ISA06 is validated against a database of approved filers and must match a valid approved FEIN.

IRS Terminal Codes (TCN)

A listing of the IRS Terminal Codes most commonly used in Iowa can be found in <u>Appendix G</u>. All IRS Terminal Codes will be accepted. A complete listing of all IRS Terminal Codes can be found at <u>www.irs.gov/Businesses/Small-Businesses-&-Self-Employed/Terminal-Control-Number-TCN-Terminal-Locations-Directory</u>.

Iowa Motor Fuel Tax Licensees

A listing of current Iowa Motor Fuel Tax Licensees may be found at: tax.iowa.gov/reports?term_node_tid_depth=84

Contact Information

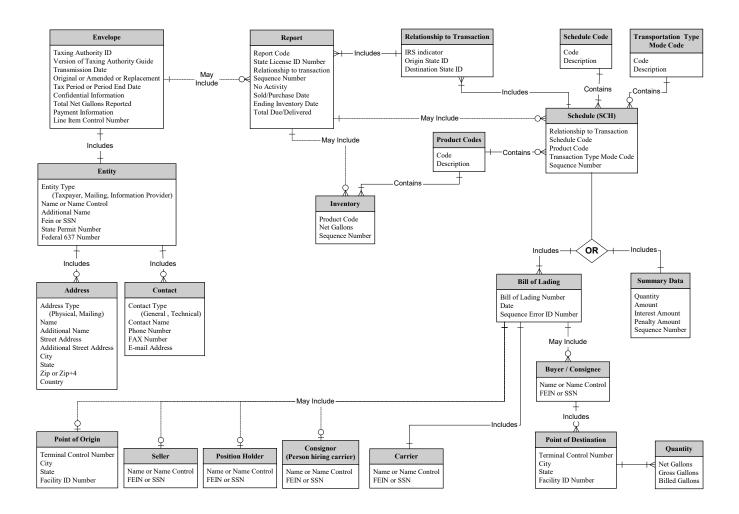
EDI Contact: Phone: Fax: Email: Scott Fisher 515-601-4417 515-281-3756 scott.fisher1@jowa.gov

General Contact: Phone: Fax: Email: Estie Mason 515-281-6196 515-281-3756 estie.mason@iowa.gov

Note: All correspondence should be mailed to the following address:

Iowa Department of Revenue Compliance: Fuel Tax Unit PO Box 10456 Des Moines, IA 50306-0456

Chapter 2 – Motor Fuels X12 Data Model



Chapter 3 – X12 Attribute and Separator Conventions

Attribute Conventions

Attribute	Definition	
Data Element Type	Nn – Numeric	Numeric type data element is symbolized by the two-position representation (Nn). N indicates a numeric, and n indicates the decimal places to the right of a fixed, implied decimal point. N0 (N Zero) is a numeric with no decimal places.
	R – Decimal (Real)	The decimal point is optional for integer values, but is required for fractional values. For negative values, the leading minus (-) sign is used. Absence of this sign indicates a positive value. The plus (+) sign should not be transmitted.
	ID – Identifier	An identifier data element must always contain a value from a predefined list of values that is maintained by ASC X12 or by other bodies that are recognized by ASC X12.
	AN – String	A string (Alphanumeric) is a sequence of any characters from the basic or extended character sets. It must contain at least one nonspace character. The significant characters must be left justified. Leading spaces, if any, are assumed to be significant. Trailing spaces should be suppressed.
	DT – Date	Format for the date type is CCYYMMDD. CC is the century digits of the year (ex. 19, 20). YY is the last two digits of the year (00-99), MM is the numeric value of the month (01-12), and DD for the day (01-31).
	TM – Time	Format for the time type is HHMMSS, expressed in 24-hour clock format. HH is the numeric value for hour (00-23), MM for minute (00-59), and SS for second (00-59).
Requirement Designator	M Mandatory dat O Optional data or is based on X Relational data	ment is used in a segment. ta element - This element is required to appear in the segment. element - The appearance of this data element is at the option of the sending party a mutual agreement of the interchange parties. a element - Relational conditions may exist between two or more data elements. If the other/s is required. The relational condition is displayed under the Syntax K12 Standards.
Data Element Length		positions assigned to a data element. Example: Data element length of 2/10. You acters but no more than 10 characters for this element (minimum of 2/ maximum of
Semantic Note Designator	of a s desig appe	ta element within a segment may have a designator (Z) that indicates the existence semantic note. Semantic notes are considered part of the standard. If a condition gnator and a semantic note both affect a single data element, the condition will ar first, separated from the semantic note designator by a vertical bar (). The ber 00 to the left of the comment identifies semantic notes that are general in nature.

Separator Requirements

Туре	ASCII Value	EBCDIC Value	Character	Character Name
Repetition Separator	7C	4 F		Pipe
Segment Terminator	5C	E0	\	Back Slash
Element Separator	7E	A1	~	Tilde
Sub-element Separator	5E	5F	^	Caret
Padding Character	20	40	Space	Space

Chapter 4 – X12 EDI Envelope

Envelope Flows

ISA Interchange Control Header	
GS Functional Group Header	Max 1
· GE Functional Group Trailer ·····	
GS Functional Group Header -813 Transaction Set (Combined Reporting) 813 details are defined in this guide.	Max >1
· GE Functional Group Trailer ·····	
IEA Interchange Control Trailer	
ISA Interchange Control Header	
- GS Functional Group Header	Max 1
· GE Functional Group Trailer · · · · · · · · · · · · · · · · · · ·	
IEA Interchange Control Trailer	
ISA Interchange Control Header	
GS Functional Group Header	Max 1
· GE Functional Group Trailer · · · · · · · · · · · · · · · · · · ·	
IEA Interchange Control Trailer	
ISA Interchange Control Header	
GS Functional Group Header -997 Transaction Set (Functional Acknowledgement) 997 details are defined in this guide.	Max 1
· GE Functional Group Trailer ·····	
IEA Interchange Control Trailer	

Note: The Iowa Department of Revenue only accepts envelopes containing a single functional group (i.e., a single GS-GE sequence) and a single 813 transaction set (i.e., single return or report) within a file. All electronic submissions must consist of a single functional group enclosing a single 813 transaction set. Transaction sets 151, 820 and 826 are not used for Iowa.

Key:	
Not Used	Not used: no data to transmit
Not used	Strikethrough
Syntax Notes	Note: Notes defined by X12 Standards
FTA Notes	Note: Notes defined by FTA Uniformity
Iowa Notes	Note: Notes defined by Iowa Department of Revenue

Interchange Control Header Description

Intercha	nge Seg	gment						(Required)
Element	Elem	Sub-Ele	Field	Field Name	Field	Len		Field
ID	Ref #	Ref#	Status		Туре	Min.	Max.	Description
ISA01	I01		М	Authorization Information Qualifier	ID	2	2	"00" = No Authorization Information Present.(No meaningful information in ISA02)"03" – Additional Data Identification
ISA02	102		М	Authorization Information	AN	10	10	authorization of the interchange sender or the data in the interchange.
ISA03	103		М	Security Information Qualifier	ID	2	2	"00" = No Security Information Present (No meaningful information in ISA04) "01" = Password
ISA04	I04		М	Security Information	AN	10	10	information about the interchange sender of the data in the interchange.
ISA05	105		М	Interchange ID Qualifier	ID	2	2	 <u>"01" - DUNS Number</u> "32" = Employer's Identification Number <u>"ZZ" - ID qualifier published by the sender used</u> to designate the sender ID element being qualified.
ISA06	I06		М	Interchange Sender ID	AN	15	15	Sender's FEIN Number plus 6 spaces
ISA07	105		М	Interchange ID Qualifier	ID	2	2	<u>"01" – DUNS Number</u> '32" = Employer's Identification Number <u>"ZZ" – ID qualifier published by the receiver</u> used to designate the receiver ID element being qualified.
ISA08	107		М	Interchange Receiver ID	AN	15	15	"421223822 " = Department of Revenue FEIN number plus 6 spaces.
ISA09	I08		М	Interchange Date	DT	6	6	"YYMMDD" = Date Of The Interchange
ISA10	I09		М	Interchange Time	TM	4		"HHMM" = Time Of The Interchange
ISA11	165		М	Repetition Separator		1	1	" " = EBCDIC - 4F HEX ASCII = 7C HEX
ISA12	I11		М	Interchange Control Version Number	ID	5	5	
ISA13	I12		М	Interchange Control Number	N0	9	9	The interchange control number uniquely identifies the interchange data to the sender. The sender assigns this number. This control number should never be reused for any future filings. This number should also be entered in IEA02.
ISA14	I13		М	Acknowledgment Requested	ID	1	1	"0" = No Acknowledgment Required "1" = Acknowledgment Required
ISA15	I14		М	Usage Indicator	ID	1	1	"P" = Production Data "T" = Test Data
ISA16	I15		М	Component Sub-Element Separator		1	1	"^" = EBCDIC - 5F HEX ASCII - 5E HEX
Example:			0 100/-		50000		0.402 0	
ISA~00~	~00	~~-3	2~12345		50822~09	931~ ~00	0403~0	00000001~0~T~^\
Syntax I			Non		4		4l	NGLACC V12 Stands
FTA No				09 does not include the cen	tury ba	sed on	the A	NSI ASU X12 Standard.
Iowa No	tes:		Non	e				

Electronic Signature Method:

The following example illustrates how the ISA01-ISA04 can serve as an electronic signature.

- ISA01 is 03 (zero three). ISA01 qualifies ISA02 as an authorization code.
- ISA02 is the ten-digit authorization code provided by the taxing authority. This code, in conjunction with the tendigit password in ISA04, will represent your signature that is affixed to a trading partner agreement.
- ISA03 is 01 (zero one). ISA03 qualifies ISA04 as a security password.
- ISA04 is the ten-digit password that is created by the trading partner and entered on the trading partner agreement. This password, in conjunction with ISA02 authorization code, will represent your signature that is established on the trading partner agreement.

Function	al Gro	up Segm	ent					(Required)
Element	Elem.	Sub-Ele	Field	Field Name	Field	Len	ngth	Field
ID	Ref #	Ref#	Status		Туре	Min.	Max.	Description
GS01	479		М	Functional Identifier Code	ID	2	2	"TF" = 813 Transaction Set "RA" = 820 Transaction Set "TI" = 826 Transaction Set "FA" = 997 Transaction Set
GS02	142		М	Application Sender's Code	AN	2	15	"123456789" = Taxpayer FEIN Number
GS03	124		М	Application Receiver's Code	AN	2	15	"421223822" Department of Revenue FEIN Number.
GS04	373		M/Z	Date	DT	8	8	"CCYYMMDD" = Date
GS05	337		M/Z	Time	TM	4	6	"HHMMSS" = Time
GS06	28		M/Z	Group Control Number	N0	1	9	Filer defined unique control number for this filing. This control number should never be reused for any future filings. This number should also be entered in GE02.
GS07	455		М	Responsible Agency Code	ID	1	2	"X" = ASC X12
GS08	480		М	Version/ Release / Industry Identifier Code	AN	1	12	"004030"
Example: GS~TF~12		9~421223	822~200)50823~0931~1101~X~004030)\	•		
Syntax I	Notes:		Non	e				
FTA No	tes:		Non	e				
Iowa No	otes:		Non	e				

Functional Group Header Description

813 Electronic Filing of Tax Return Data - see page 5-14

997 Functional Acknowledgement - see page 6-42

Functional Group Trailer Description

Function	al Gro	up Segm	ent					(Required)
Element	Elem.	Sub-Ele	Field	Field Name	Field	Len	gth	Field
ID	Ref #	Ref#	Status		Туре	Min.	Max.	Description
GE01	97		М	Number of Transaction Sets Included	N0	1	6	Count of transaction sets within this GS/GE
GE02	28		M/Z	Group Control Number	N0	1	9	The data interchange control number in the trailer must be identical to the same data element in the associated functional header (GS06)
Example:								
GE~1~110)1\							
Syntax N	Notes:		Non	e				
FTA No	tes:		Non	e				
Iowa No	tes:		Non	e				

Interchange Control Trailer Description

Function	al Gro	up Segm	ent					(Required)
Element	Elem.	Sub-Ele	Field	Field Name	Field	Len	gth	Field
ID	Ref #	Ref#	Status		Туре	Min.	Max.	Description
IEA01	116		М	Number of Included Functional Groups	N0	1	5	Count of Function Groups Within This ISA/IEA
IEA02	112		М	Interchange Control Number	N0	9	9	The interchange number in the trailer must be identical to the same data element in the associated interchange header (ISA13).
Example:								
IEA~10~0	000000)1\						
Syntax N	Notes:		Non	e				
FTA No	tes:		Non	e				
Iowa No	tes:		Non	e				

Chapter 5 - 813 EDI Combined Reporting

ANSI ASC X12 – 813 EDI Standard

RELEASE •	004030		TRA	NSACTION	SET TABLES • 81
813	Elec	tronic Filing of Tax Return Data			
		ONAL GROUP= TF			
		Draft Standard for Trial Use contains the format and estal			
		ronic Filing of Tax Return Data Transaction Set (813) for Interchange (EDI) environment. This transaction set can			
		x returns with a federal, state, or local taxing authority an			
	to the	e tax return.			
	1	L- 4			
	. SEG.ID		REQ.DES.	MAX USE	
NOTE POS.NO 0100	-	Transaction Set Header	REQ.DES.	MAX USE	LOOP REPEAT
0200		Beginning Tax Information	M	1	
0300		Date/Time Reference	м	10	
N 0400		Tax Information and Amount	0	1000	
0430		Reference Identification	0	10	
0450		Trace	0 0	1000	
0470		Beginning Segment for Payment Order/Remittance Advice	0	1000	
N 0500) <u>N1</u>	LOOP ID - N1 Name	0	1	>1
0600		Additional Name Information	o	2	
0700		Individual Name Structure Components	o	10	
080	_	Address Information	0	2	
0900		Geographic Location	0	1	
1000		Administrative Communications Contact	0	2	
	Tab	le 2			
NOTE POS.NO	. SEG.ID	D NAME	REQ.DES.	MAX USE	LOOP REPEAT
		LOOP ID - TFS			100000
0100		Tax Form	0	1	
0200		Reference Identification	0	10	
0300 0400		Date/Time Reference Message Text	0 0	10 1000	
0400	/ <u>MSG</u>	-	0	1000	
N 0500) <u>N1</u>	LOOP ID - N1 Name	0	1	>1
0600		Additional Name Information	0	2	
0700		Individual Name Structure Components	0	10	
080		Address Information	0	2	
0900) <u>N4</u>	Geographic Location	0	1	
		LOOP ID - TIA			10000
N 0920		Tax Information and Amount	0	1	
0940 0960		Date/Time Reference Message Text	0 0	10 1000	
0300	/ <u>M3G</u>		J	1000	400000
1000	FGS	LOOP ID - FGS Form Group	0	1	100000
1100		Reference Identification	ő	10	
1200		Date/Time Reference	o	10	
		LOOP ID - N1			>1
) <u>N1</u>	Name	0	1	
N 1300					
N 1300					

¹ Data Interchange Standards Association, Inc. (DISA)

1400	SACTION SET TABLES N2 Additional Name Information	RELEASE • 0 0 2
1400		O 10
1600		0 2
1700		0 1
	LOOP ID - TIA	10000
N 1800		O 1
1900		O 10
2000	MSG Message Text	O 1000
NOTE POS.NO	D. SEG.ID NAME	REQ.DES. MAX USE LOOP REPE
0100	SE Transaction Set Trailer	M 1
	Changes loop repeat value in table/positions 1/0500, 2/0500 and 2/1	1300. 6 205
NOTES		1
1/040	00 The TIA segment allows for tax information and amounts associated TIA segment must be present in the transaction set, either in Table *	
1/050	00 This N1 loop reflects names and addresses associated with the entil	
2/050	00 This N1 loop reflects names and addresses associated with a partic	ular tax form (TFS).
	20 At least one occurrence of the TIA segment must be present in the t	
	00 This N1 loop reflects names and addresses associated with a partic	
2/180	00 At least one occurrence of the TIA segment must be present in the t	transaction set, either in Table 1 or Table 2.

F

² Data Interchange Standards Association, Inc. (DISA)

<u>813 Combined Reporting Structure</u>

Table1

1 4010								
Pos	Uniform	Header						
No	813 Map	1100001						
0100	ST	Transaction Set Header						
0200	BTI	Identify Tax Agency Information						
0300	DTM	Tax Filing Period						
0400	TIA	Confidential Information						
0400	TIA	Total Net Reported						
0430	REF	Sequence Number						
0470	BPR	Payment Information						
0500	N1	Taxpayer Name Detail						
0600	N2	Additional Taxpayer Name Detail						
0800	N3	Address Detail						
0900	N4	City, State, Zip Code Detail						
1000	PER	General Contact Person						
1000	PER	EDI Contact Person						
0500	N1	Mailing Name Detail						
0600	N2	Additional Mailing Name Detail						
0800	N3	Mailing Address Detail						
0900	N4	Mailing City State Zip Code Detail						

Table 2

Pos No	Uniform 813 Map	Report	SUM	SCH
0100	TFS	Report	Summary Information	Schedules
0200	REF	Relationship to the Transaction	Relationship to the Transaction	Relationship to the Transaction
0200	REF	Sequence Number	Sequence Number	Sequence Number
0200	REF	No Activity		
0300	DTM	Sold/Purchase Date		
0300	DTM	Ending Inventory Date		
0500	N1			Point of Origin
0500	N1			Seller Information
0500	N1			Position Holder Information
0500	N1			Person Hiring Carrier (Consignor)
0500	N1			Carrier Information
0500	N1			Buyer/Consignee Information
0500	N1			Point of Destination
0920	TIA	Total Due/Transported		
1000	FGS	Physical Inventory by Product	Summary Data	Bill of Lading
1100	REF	Sequence Number	Sequence Number	Sequence Number
1200	DTM			Bill of Lading Date
1800	TIA	Physical Inventory	Information	Bill of Lading Net
1800	TIA		Interest	Bill of Lading Gross
1800	TIA		Penalty	Bill of Lading Billed

Table 3

Pos No	Uniform 813 Map	Trailer
0100	SE	Transaction Set Trailer

813 Map Flow

0200 BTI	on Set Header (TS 813) Identify Tax Agency Information	Λ
	Tax Filing Period	
	Confidential Information	
	Total Net Reported Line Item Control Number	
	Payment Order/Remittance Advice	
0500 N1 Loop	Taxpayer Name Detail Additional Taxpayer Name Detail	Max
0800 N3	Address Detail	
0900 N4	City, State, Zip Code Detail	
1000 PER 1000 PER	General Contact Person EDI Contact Person	
0500 N1 Loop N2	Mailing Name Detail	Max
0800 N2	Additional Mailing Name Detail Mailing Address Detail	
0900 N4	Mailing City, State, Zip Code Detail	
0100 TFS Loop 0200 REF	Report Information Relationship to the Transaction Information	Max 100,000
0200 REF	Sequence Number	
0200 REF	No Activity	
0300 DTM 0300 DTM	Sold/Purchased Date Ending Inventory Date	
0920 TIA	Total Due/Transported	
	Loop Physical Inventory by Product	
	REF Sequence Number	— Max 100,000
	TIA Physical Inventory	
0100 TFS Loop 0200 REF 0200 REF -1000 FGS	Relationship to the Transaction information Sequence Number Loop Summary Data	Max 100,000
0200 REF 0200 REF -1000 FGS 1100 1800 1800	Relationship to the Transaction information Sequence Number	
0200 REF 0200 REF -1000 FGS 1100 1800 1800	Relationship to the Transaction information Sequence Number Loop Summary Data REF Sequence Number TIA Information TIA Interest TIA Penality	
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 0100 TFS Loop 0200 REF	Relationship to the Transaction information Sequence Number Loop Summary Data	
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 0100 TFS Loop 0200 REF 0200 REF	Relationship to the Transaction information Sequence Number Loop Summary Data REF Sequence Number TIA Information TIA Interest TIA Penality	
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 0200 REF 0200 REF 0200 REF 0200 REF 0200 REF	Relationship to the Transaction information Sequence Number Loop Summary Data REF Sequence Number TIA Information TIA Interest TIA Penality Schedules Relationship to the Transaction information Sequence Number Point of Origin	
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 0100 TFS Loop 0200 REF 0200 REF	Relationship to the Transaction information Sequence Number Loop Summary Data REF Sequence Number TIA Information TIA Interest TIA Penality	
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 0200 REF 0200 REF 0200 REF 0200 REF 0200 N1 0500 N1 0500 N1	Relationship to the Transaction information Sequence Number Loop Summary Data	
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 1800 0200 REF 0200 REF 0200 REF 0200 REF 0500 N1 0500 N1 0500 N1	Relationship to the Transaction information Sequence Number Loop Summary Data REF Sequence Number TIA Information TIA Interest TIA Penality Schedules Relationship to the Transaction information Sequence Number Point of Origin Seller Information Position Holder Information / Delivering Exchange Party Information Receiving Exchange Party Information Person Hiring Carrier (Consignor)	
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 1800 0100 TFS Loop 0200 REF 0200 REF 0200 REF 0200 N1 0500 N1 0500 N1 0500 N1 0500 N1	Relationship to the Transaction information Sequence Number Loop Summary Data REF Sequence Number TIA Information TIA Interest TIA Penality Schedules Relationship to the Transaction information Sequence Number Point of Origin Seller Information Position Holder Information / Delivering Exchange Party Information Receiving Exchange Party Information Person Hiring Carrier (Consignor) Carrier Information	
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 1800 0200 REF 0200 REF 0200 REF 0200 REF 0500 N1 0500 N1 0500 N1	Relationship to the Transaction information Sequence Number Loop Summary Data REF Sequence Number TIA Information TIA Interest TIA Penality Schedules Relationship to the Transaction information Sequence Number Point of Origin Seller Information Position Holder Information / Delivering Exchange Party Information Receiving Exchange Party Information Person Hiring Carrier (Consignor)	
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 1800 0200 REF 0200 REF 0200 REF 0200 REF 0200 RI 0500 N1 0500 N1 0	Relationship to the Transaction information Sequence Number AEF Sequence Number TIA Information TIA Information TIA Interest TIA Penality Schedules Relationship to the Transaction information Sequence Number Point of Origin Seller Information Position Holder Information / Delivering Exchange Party Information Receiving Exchange Party Information Person Hiring Carrier (Consignor) Carrier Information Buyer/Consignee Information Point of Destination Bull Lading	
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 1800 0200 REF 0200 REF 0200 REF 0500 N1 0500 N1 05	Relationship to the Transaction information Sequence Number Cop Summary Data REF Sequence Number TIA Information TIA Information TIA Penality Schedules Relationship to the Transaction information Sequence Number Point of Origin Seller Information Position Holder Information / Delivering Exchange Party Information Receiving Exchange Party Information Person Hiring Carrier (Consignor) Carrier Information Buyer/Consignee Information Point of Destination Receiving Exchange Information Buyer/Consignee Information Point of Destination Ref Sequence Number	— <i>Мөх 100,000</i>
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 1800 0200 REF 0200 REF 0200 REF 0200 REF 0200 N1 0500 N1 0	Relationship to the Transaction information Sequence Number Cop Summary Data REF Sequence Number TIA Information TIA Interest TIA Penality Schedules Relationship to the Transaction information Sequence Number Point of Origin Seller Information Position Holder Information / Delivering Exchange Party Information Receiving Exchange Party Information Receiving Exchange Party Information Receiving Exchange Party Information Person Hiring Carrier (Consignor) Carrier Information Buyer/Consignee Information Point of Destination Point of Destination Buyer/Consignee Information Buyer/Consignee Information Buyer/Consignee Information Buyer/Consignee Information Buyer/Consignee Information Point of Destination Buyer/Consignee Information Buyer/Consignee Infor	— <i>Мөх 100,000</i>
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 1800 1800 1800 1800 1800 1800 1800 1800 1800 N1 0500 N1 0500 N1	Relationship to the Transaction information Sequence Number AREF Sequence Number TIA Information TIA Information TIA Interest TIA Penality Schedules Relationship to the Transaction information Sequence Number Point of Origin Seller Information Position Holder Information / Delivering Exchange Party Information Receiving Exchange Party Information Person Hiring Carrier (Consignor) Carrier Information Person Hiring Carrier (Consignor) Carrier Information Buyer/Consignee Information Point of Destination Refersion Exchange Party Information Buyer/Consignee Information Point of Destination Buyer/Consignee Information Point of Destination Exchange Party Information Buyer/Consignee Information Buyer/Consignee Information Point of Destination Exchange Party Information Buyer/Consignee Information Point of Destination Exchange Party Information Buyer/Consignee Information Buyer/Consignee Information Buyer/Consignee Information Point of Destination Exchange Party Information Buyer/Consignee Informati	— <i>Мөх 100,000</i>
0200 REF 0200 REF -1000 FGS 1100 1800 1800 1800 1800 1800 1800 1800 1800 1800 1800 1800 1800 N1 0500 N1 0500 N1	Relationship to the Transaction information Sequence Number AREF Sequence Number TIA Information TIA Information TIA Interest TIA Penality Schedules Relationship to the Transaction information Sequence Number Point of Origin Seller Information Position Holder Information / Delivering Exchange Party Information Receiving Exchange Party Information Person Hiring Carrier (Consignor) Carrier Information Buyer/Consignee Information Point of Destination Point of Destination Buyer/Consignee Information Point of Destination Buyer/Consignee Information Point of Destination Buyer/Consignee Information Point of Destination Buyer/Consignee Information Point of Destination Point of Destination Point of Destination Buyer/Consignee Information Point of Destination Point of Destination Poi	— <i>Мөх 100,000</i>

-0100 SE Transaction Set Trailer-

Transaction Set - Header Description

• •	eginning of Transaction Set (Required)											
Header S	Segme	nt						Pos. No. 0100				
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	igth	Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description				
ST01	143		М	Transaction Set Code	ID	3	3	"813" = Transaction Set Type				
ST02	329		М	Transaction Set Control Number	AN	4	9	Filer defined unique control number for this filing. This control number should never be reused for any future filings. This number should also be entered in SE02.				
ST03	1705		O/Z	Implementation Convention Reference	AN	1	5	Version of taxing authority's implementation guide.				
Example: ST~813~1		1\										
Syntax I	Notes:		No	ne								
					ement	will h	elp th	tify which implementation guide the he receiver of the data determine if the uide for the data transmission.				
Iowa No	Iowa Notes: ST03 must contain a whole numb							of 1.01)				

Identify ' Begin Ta								(Required) Pos. No. 0200
Element ID	Elem Ref #	Sub-Ele Ref #	Field Status	Field Name	Field Type	Len Min		Field
BTI01	128	Kel #	M	Reference Number Qualifier	ID	2	2	
BTI01 BTI02	128		M	Reference Number	AN	3	3	
BTI02 BTI03	66		M	ID Code Qualifier	ID	2	2	
BTI05 BTI04	67		M	ID Code	AN	2	20	
B1104	07		IVI	ID Code	AIN	2	20	number.
BTI05	373		0	Transaction Create Date	DT	8	8	"CCYYMMDD" = Transmission Date
BTI06	818		0	Name Control ID	AN	4	4	Name. If business name is less than 4 characters, left justify name control and pad with "*".
BTI07	66		Х	ID Code Qualifier	ID	2	2	 "24" = FEIN Federal Employer Identification Number "34" = Social Security Number "50" = BN - Canadian Business Number
BTI08	67		Х	ID Code	AN	9	18	Taxpayer's FEIN or SSN or BN
BTI09	66		Х	ID Code Qualifier	ID	2		"49" = State (assigned) Identification Number
BTI10	67		Х	ID Code	AN	2	20	License or Permit Number
BTI11	66		Х	ID Code Qualifier	ID	2	2	"48" = IRS Electronic Filer ID Number "SV" = Software Provider Number
BTI12	67		Х	ID Code	AN	9	18	
BTI13	353		0	Transaction Set Purpose Code	ID	2	2	Original Filing Options: "00" = Original "05" = Replace "15" = Resubmission
BTI14	640		0	Transaction Type Code	ID	2	2	Amended Filing Options: <u> "6R" – Resubmission</u> <u> "6S" – Supplemental</u> "CO" = Corrected
Example: BTI~T6~0	50~47~	42122382	22~2005)823~ABC*~24~516999988~49/	~7041234	56~SV	/~ZY()001~00\
Syntax N	BTI-T6~050~47~421223822~20050823~ABC*~24~516999988~49~704123456~SV~ZY0001~00\ Syntax Notes: If either BTI07 or BTI08 is present, then the other is required. If either BTI09 or BTI10 is present, then the other is required. If either BTI11 or BTI12 is present, then the other is required.							

FTA Notes:	BTI07 must be the FEIN if the taxpayer has one. Submit a SSN only for sole proprietorships that have not been issued a FEIN. In Canada, companies use a BN – Canadian Business Number.
	The application of the BTI13 and BTI14 are as follows: BTI13 should be used when the taxpayer transmits their initial return (BTI13 should be used without BTI14); BTI14 should be used when the taxpayer transmits modifications (BTI14 should be used without BTI13). This is a recommendation of the motor Fuel Uniformity Committee, not a requirement of X12. Further clarification of these elements are located below.
Element	Application
BTI13 [Initial Return]	
"00" = Original	Use "Original" when first attempt to transmit your return to the department, no matter if the Department receives your return.
<u>"05" – Replace</u>	Use "Replace" when first attempt of transmitted return had corrupted data.
<u>"15" – Resubmission</u>	Use "Resubmission" when the Department did not receive first attempt of your transmitted return.

BTI14 [Amended Return]

"CO" = Corrected	Use "Corrected" when adjusting or correcting original or amended return
<u>"6R" = Resubmission</u>	Use "Resubmission" when first attempt to transmit amended return was not received by the Department.
<u>"6S" – Supplemental</u>	Use "Supplemental" when transmitting new or additional data not included in original or amended return.
Iowa Notes:	For BTI13, Iowa will not use codes 05 and 15. For BTI14, Iowa will not use codes 6R and 6S.

Tax Filin	'ax Filing Period (Required)											
Date/Tin	Date/Time Reference Segment Pos. No. 03											
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	lgth	Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description				
DTM01	374		М	Date/Time Qualifier	ID	3	3	"194" = Tax Period End Date				
								<u>"683" = Filing Period</u>				
DTM02	373		Х	Date	DT	8	8	"CCYYMMDD" = Tax Filing Period End				
DTM03 th	irough	DTM04 ar	e not us	ed.								
DTM05	1250		X	Date Time Period Format Qualifer	Ð	3	3	"RD8" = Range of Dates				
DTM06	1251		X	Date Time Period	AN	17	17	"CCYYMMDD CCYYMMDD" Tax Filing				
								Period Beginning and Ending Dates.				
Example:	:											
DTM~194	4~2005	0823\										
Syntax 1	Notes:		At	least one of DTM02 or DTM0	5 is red	uired	1.					
			If e	ither DTM05 or DTM06 is pr	esent,	then t	the ot	her is required.				
				If qualifier "194" is used in DTM01, then DTM05 and DTM06 are not used.								
If qualifier "683" is used in DTM0												
Lowe No	otos.				ior, in		11104	15 HUT USTU.				
Iowa Notes: DTM02 is required.												

Confider	Confidential Data (Not Used)											
Tax Info	Tax Information and Amount Segment Pos. No. 0400											
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	igth	Field				
Ð	Ref #	Ref #	Status		Type	Min	Max	Description				
TIA01	C037	817	M	Tax Information Code	AN	4	4	"5010" - Confidential Information				
TIA02 is r	10t used	.										
TIA03	449		X	Fixed Format Information	AN	+	5	User Defined:				
								Example: "6103" - IRS 6103 C Tax Data				
Example:	÷											
TIA5010)6103											
Syntax 3	Syntax Notes: TIA03 is required.											
FTA No	FTA Notes: This segment is used only between the states and the IRS.											
Iowa No	Iowa Notes: Not Used by Iowa Department of Revenue.											

Total Ne	Total Net Reported											
Tax Info	Tax Information and Amount SegmentPos. No. 0400											
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description				
TIA01	C037	817	М	Tax Information Code	AN	4	4	"5001" = Total Net Reported				
TIA02 and	d TIA03	3 are not u	sed.									
TIA04	380		Х	Quantity	R	1	15	Total Number of Net Gallons (Total number of Gallons (Gross) before any adjustments)				
TIA05	C001	355	М	Unit of Measurement Code	ID	2	2	"GA" = Gallons <u>"LT" = Liters</u>				
Example TIA~5001		00000~GA	1 \									
Syntax	Notes:			A04 is required. FIA05 is present, then TIA04 i	s requ	ired.						
FTA Notes: Even though this value can be c amount calculated by the Tax A							uded, as a control figure to verify that the ne as expected by the taxpayer.					
Iowa No	otes:			e gallons reported here will be T a sum of all the gallons rep				ross gallons before adjustments. This is llons on a schedule.				

Line Iter	Line Item Control Number (Sequence Number)											
Reference	Reference Number Segment Pos. No. 0430											
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	igth	Field				
Ð	Ref #	Ref #	Status		Type	Min	Max	Description				
REF01	128		M	Reference Identification Number	Ð	2	2	"FJ" Line Item Control Number				
REF02	127		X	Reference Identification	AN	4	9	Control Number				
Example: REF-FJ-0001234\												
Syntax 1	Notes:		RE	F02 is required.								
FTA No	FTA Notes: This segment is used to identify information for error processing. This segment can be generated by the filer when first filing to assist in identifying information or when responding to an error reported. REF02 is always required.											
Iowa Notes: Not Used by Iowa												

The payment order remittance advice is included as a convenience for industry if a taxing authority accepts a BPR segment. The recommendation is **not** to mandate this as the only method of payment a taxing authority accepts.

Payment	t Orde	r Remitt	ance A	dvice				(Not Used)
Beginnir	ig Seg i	ment						Pos. No. 0470
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field
Ð	Ref #	Ref #	Status		Type	Min	Max	Description
BPR01	305		M	Transaction handling Code	Ð	+	2	"S" - Single Debit Authorization
				_				<u>"P" - Pre-notification</u>
BPR02	782		M	Monetary Amount	R	+	18	Amount of Tax payment
BPR03	4 78		M	Credit/Debit Flag Code	₽	1	1	<u>"D" = Debit</u>
BPR04	591		M	Payment Method Code	Ð	3	3	"ACH" = Automated Clearing House
BPR05	<u>812</u>		M	Payment Format Code	Ð	3	3	"CCD" = Cash Concentration/Disbursement
				-				"CCP" = Cash Concentration/Disbursement plus
								Addenda (CCD+)
BPR06 th	rough E	BPR11 are	not inse	rted by the taxpayer. They are on t	he file v	vith th	e part	y that creates the ACH Debit transaction. The
taxpayer t	ransmi	ts empty f i	ields for	these elements.				
BPR06	506		X/Z	(ODFI) ID Number Qualifier	Ð	2	2	"01" = ABA Transit Routing Number and Check
								Digits.
BPR07	507		X	(ODFI) Identification Number	AN	3	12	State's Bank Routing and Transit Number
BPR08	569		$\frac{X}{Z}$	(ODFI) Account Number Qualifier	Ð	+	3	"DA" = Demand Deposit
								<u>"SG" – Savings</u>
BPR09	508		X/Z	(ODFI) Account Number	AN	+	35	State's Bank Account Number to be Credited

BPR10	509	0	Originating Company Identifier	AN	10	10	State ID				
							Example: Taxing Authority's DUNS Number				
BPR11	510	θ	Originating Company Supplemental Code	θ	<u>9</u>	<u>9</u>	Code Identifying Fiscal Agent				
BPR12	506	X/Z	(RDFI) ID Number Qualifier	₽	2	2	"01" – ABA Transit Routing Number and Check Digits				
BPR13	507	X	(RDFI) Identification Number	AN	3	12	Taxpayer's Bank Routing and Transit Number				
BPR14	569	O/Z	(RDFI) Account Number Qualifier	₽	+	3	"DA" - Demand Deposit "SG" - Savings				
BPR15	508	X/Z	(RDFI) Account Number	AN	+	35	Taxpayer's Bank Account to be Debited				
BPR16	373	O/Z	Date	ÐŦ	8	8	The intended payment effective date (CCYYMMDD)				
BPR17	1048	0/Z	Business Function Code	Ð	1	3	"TAX" = Tax Payment				
BPR16	373	0/Z	Date	DT	8	8	The intended payment effective date (CCYYMMDD)				
Example BPR-S-5 Syntax	500DACH		01123456789DA9876543212 either BPR06 or BPR07 is pres				er is required.				
			BPR08 is present, then BPR09 either BPR12 or BPR13 is pres	-		oth	ar is required				
			BPR14 is present, then BPR15	· · · ·		: 0111	ci is requireu.				
ETA N.			is segment should not be mane	-			Anthonity				
FTA Notes:			0	nancia	I Inst	itutic	on) is the bank that creates the ACH				
				· ·							
			RDFI (Receiving Depository Financial Institution) is the bank that accepts the ACH transaction. For debit transactions, this is the taxpayer's Bank.								
Iowa N		NI.	t Used by Iowa								

Name De	etail							
Name Se	gment	t						Pos. No. 0500
Element	Elem	Sub-Ele	Field	Field Name	Field	Length		Field
ID	Ref #	Ref #	Status		Туре	Min	Max	Description
N101	98		М	Entity Identification Code	ID			"TP" = Primary Taxpayer "L9" = Information Provider
N102	93		Х	Name	AN	AN 1 35 Name		
Example:								
N1~TP~A	BC Oil	Company	١					
Syntax 1	Notes:		N1)2 is required				
FTA No	FTA Notes: N101: Use "TP for tax reporting						r info	rmation reporting
Iowa No	Iowa Notes: None							

Addition	Additional Taxpayer Name Detail									
Addition	Additional Name Segment Pos. No. 0600									
Element	Elem	Sub-Ele	Field]	Field Name	Field	Len	gth		Field
ID	Ref #	Ref #	Status			Туре	Min	Max		Description
N201	93		М	Name		AN	1	35	Taxpayer Name	
N202	93		0	Name		AN	1	35	Taxpayer Name	
Example:										
N2~ABC	Truckir	ng~ABC S	tation							
Syntax 1	Notes:		Noi	ne						
FTA Notes: None										
Iowa Notes: N				ne						

	Address Detail Address Information Segment Pos. No. 0800								
Element ID	Elem Ref #	Sub-Ele Ref #	Field Status	Field Name	Field Type			Field Description	
N301	166		М	Address Information	AN				
N302	166		0	Address Information	AN				
Example: N3~123 C		-PO Box 2	22\						
Syntax 1	Notes:		Noi	ne					
FTA No	FTA Notes: None								
Iowa Notes: None				ie					

City, Sta	City, State, Zip Code Detail							
Location	Location Geographic Segment Pos. No. 0900							
Element	Elem	Sub-Ele	Field	Field Name	Field Length		igth	Field
ID	Ref #	Ref #	Status		Туре	Min	Max	Description
N401	19		0	City Name AN 2 30 Name of City				
N402	156		0	State or Province Code ID 2 2 State or Province Abbreviation				
N403	116		0	Postal (Zip) Code ID 3 11 ZIP Code, ZIP Plus 4 Code or Foreign Postal				ZIP Code, ZIP Plus 4 Code or Foreign Postal code
N404	26		0	Country Code	ID	2	3	Country Abbreviation (United States = USA)
Example:								
N4~Des N	/loines~	IA~50317	′-2222~l	JSA				
Syntax]	Notes:		No	ne				
FTA No	FTA Notes: None							
Iowa No	Iowa Notes: None							

General	General Contact Person								
Adminis	Administrative Communications Contact Segment Pos. No. 1000								
Element	Elem	Sub-Ele	Field	Field Name	Field	Ler	ngth	Field	
ID	Ref #	Ref #	Status		Туре	Min	Max	Description	
PER01	366		М	Contact Function Code	ID	2 2		Contact Type Code: "CN" = General Contact	
PER02	93		0	Name	AN	1	35	Contact Name	
PER03	365		Х	Communications Number ID 2 2 "TE" = Telephone Number Qualifier ID I					
PER04	364		Х	Communications Number	AN	10 14 Voice Telephone Number			
PER05	365		Х	Communications Number Qualifier	ID	2	2	"FX" = FAX Number	
PER06	364		Х	Communications Number	AN	10	10	FAX Telephone Number	
PER07	365		Х	Communications Number Qualifier	ID	2	2	"EM" = Email Address	
PER08	364		Х	Communications Number	AN	1	80	E-mail Address	
1	~John E		r	88~FX~3139950329~EM~john.de					
Syntax Notes:If either PER03 or PER04 is present, then the other is required.If either PER05 or PER06 is present, then the other is required.If either PER07 or PER08 is present, then the other is required.							er is required.		
FTA No	otes:		No	ne					
Iowa Notes: None									

EDI Con	EDI Contact Person										
Adminis	Administrative Communications Contact Segment Pos. No. 1000										
Element	Elem	Sub-Ele	Field	Field Name	Field	Length		Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
PER01	366		М	Contact Function Code	ID	2	2	Contact Type Code: "EA" = EDI Cordinator			
PER02	93		0	Name	me AN 1 35 Contact Name						
PER03	365		Х	Communications Number ID 2 2 "TE" = Telephone Number Qualifier							
PER04	364		Х	Communications Number AN 10 14 Voice Telephone Number							
PER05	365		Х	Communications Number Qualifier	ID	2	2	"FX" = FAX Number			
PER06	364		Х	Communications Number	AN	10	10	FAX Telephone Number			
PER07	365		Х	Communications Number Qualifier	ID	2	2	"EM" = Email Address			
PER08	364		Х	Communications Number	AN	1	80	E-mail Address			
Example: PER~EA~		loe~TE~31	1399599	88~FX~3139950329~EM~john.do	e@abcc	il.com	i\				
Syntax]	Notes:		If e	If either PER03 or PER04 is present, then the other is required. If either PER05 or PER06 is present, then the other is required. If either PER07 or PER08 is present, then the other is required.							
FTA No	tes:		Noi	ne							
Iowa No	otes:		Noi	None							

The following segments are required if the mailing address is different than the physical address.

.,	Mailing Name Detail Name Segment Pos. No. 0500							
Element Elem Sub-Ele Field Field								
ID	Ref #	Ref #	Status		Туре	Min	Max	Description
N101	98		М	Entity Identification Code	ID	2	2	"31" = Postal Mailing
N102	93		Х	Name AN 1 35 Mailing Name				Mailing Name
Example:								
N1~31~A	BC Oil	Corp\						
Syntax]	Syntax Notes: N102 is required							
FTA No	FTA Notes: None							
Iowa No	Iowa Notes: None							

	Mailing Additional Name Detail Additional Name Segment Pos. No. 0600									
Element	Elem	Sub-Ele	Field	Field Name	Field	Ler	gth		Field	
ID	Ref #	Ref #	Status		Туре	Min	Max		Description	
N201	93		М	Name	AN	1	35	Mailing Name		
N202	93		0	Name	AN	1	35	Mailing Name		
Example:										
N2~ABC	Truckir	ng~ABC S	tation							
Syntax I	Notes:		No	ne						
FTA Notes: None										
Iowa No	otes:		Noi	ne						

Mailing	Mailing Address Detail								
Address Information Segment Pos. No. 0800									
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field	
ID	Ref #	Ref #	Status		Туре	Min	Max	Description	
N301	166		М	Address Information	AN	1 35		First Line Street Address	
N302	166		0	Address Information	AN	1	35	Second Line Street Address	
Example:									
N3~123 C	City Stre	eet~PO Bo	x 222\						
Syntax Notes: None									
FTA Notes: None									
Iowa N	otes:		No						
Mailing	City, S	State, Zip	Code]	Detail					
		raphic S						Pos. No. 0900	
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field	
ID	Ref #	Ref #	Status		Туре	Min	Max	Description	
N401	19		0	City Name	AN	2	30	Name of City	
N402	156		0	State or Province Code	ID	2	2	State or Province Abbreviation	
N403	116		0	Postal (Zip) Code	ID	3	11	ZIP Code, ZIP Plus 4 Code or Foreign Postal cod	
N404	26		0	Country Code	ID 2 3 Country Abbreviation (United States = USA)				
Example									
N4~Des N	∕loines~	-IA~50317	7-2222~I	JSA					

N4~Des Moines~IA~50317-22	N4~Des Moines~IA~50317-2222~USA								
Syntax Notes:	None								
FTA Notes:	None								
Iowa Notes:	None								

End of Transaction Set Header

Transaction Set - Report Information

This TFS loop reports information on the type of report. Transaction detail is reported using the Summary and Schedule section of this map.

Repeat the FGS loop within the TFS loop for each product reported.

Beginnin	g of F	Report									
Tax For	Tax Form SegmentPos. No. 0100										
Element	ement Elem Sub-Ele F		Field	Field Name	Field	Len	gth	Field			
ID	Ref. #	Ref. #	Status		Туре	Min	Max	Description			
TFS01	128		М	Reference Identification Qualifier	ID	2	2	"T2" = Tax Form Code			
TFS02	127		М	Reference Identification	AN	1	6	Report Code: "SDR" = Distributor Report "TOR" = Terminal Operator Report "CCR" = Carrier Report " RET" = Retailer Report			
TFS03 and	TFS04	are not use	ed								
TFS05	66		Х	ID Code Qualifier	ID	2	2	"TC" = IRS Terminal Code			
TFS06	67		Х	ID Code	AN	9	9	IRS Terminal Control Number (TCN)			
TFS~T2~	TFS~T2~SDR\										
Syntax]	Notes:		If e	ither TFS05 or TFS06 is pres	ent, the	en the	othe	r is required.			
FTA No	FTA Notes: TFS05 and TFS06 are only						al rep	ort.			
Iowa No	otes:		Noi	ne							

	Relationship to the Transaction Information (Not Used)												
Reference	:e Segi	nent						Pos. No. 0200					
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	igth	Field					
Ð	Ref #	Ref #	Status		Type	Min	Max	Description					
REF01	128		M	Reference Identification Qualifier	Ð	2	2	"SU" - Special Processing					
REF02	127		M	Reference Identification	AN	3	3	IRS = IRS Data					
								N/A = If not applicable to the IRS					
REF03 not	t used												
REF04	C040	128	M	Reference Identification Qualifier	Ð	2	2	"S0" - Special Approval (S Zero)					
01													
REF04	C040	127	M	Reference Identification	AN	2	2	State Abbreviation for the state which it belongs to					
02													
REF04	C040	128	X	Reference Identification Qualifier	Ð	2	2	"S0" = Special Approval (S Zero)					
03													
REF04	C040	127	X	Reference Identification	AN	2	2	State Abbreviation for the state which it belongs to					
04													
Example:													
REF-SU-	IRS	SO^MT\											
Syntax 1	Notes:		RE	F02 is required									
FTA No	otes:		RE	F02, REF04 02 and REF04 04	l repre	sent t	he ta	king authorities and their relationship to					
				the information in this TFS loop.									
				REF05 REF07 use the sub element separator.									
Lowe NL	atos.												
Iowa No	nes:		1 10	t Used by Iowa									

Sequenc	Sequence Number										
Reference	Reference Number Segment Pos. No. 0200										
Element	Elem	Elem Sub-Ele Field Field Name Fi				Len	gth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
REF01	128		М	Reference Identification Qualifier	ID	2	2	"55" = Sequence Number			
REF02	127		Х	Reference Identification	AN	1	20	Sequence Number			
REF03	352		Х	Description	AN	1	5	Error Response Code (See <u>Appendix H</u>)			
Example: REF~55~		4\									
Syntax 1	Notes:		At	least one of REF02 and REF03	3 is rec	quired	1 .				
FTA No	otes:							ror processing. This segment can be			
generated by the filer when first filing to assist in iden responding to an error reported.								identifying information or when			
	REF02 is always required. REF						r resp	oonding to an error.			
Iowa Notes: None											

Condition 1 – If an account has no activity, this segment is required. The condition 2 DTM, TIA and FGS loops are not used.

No Activ	No Activity (Conditional)										
Reference Number Segment Pos. No. 0200											
Element	Sub-Ele	Field	Field Name	Field	Ler	gth	Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
REF01	128		М	Reference Identification Qualifier	ID	2	2	"BE" = Business Activity			
REF02	127		Х	Reference identification	AN	1	1	"1" = No Activity			
Example:											
REF~BE~	1\										
Syntax Notes: REF02 is required											
FTA Notes: If an account has no activity, this					segme	ent is	requi	red			
Iowa No	Iowa Notes: None										

	old/Acquired Date(Conditional)Date/Time Reference SegmentPos. No. 0300										
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
DTM01	374		М	Date/Time Qualifier	ID	3	3	"572" = Date Property Sold			
								"631" = Date Property Acquired			
DTM02	373		Х	Date	DT	8	8	"CCYYMMDD"			
Example:											
DTM~572	~20050	520\									
Syntax Notes: DTM02 is required.											
FTA No	FTA Notes: This segment is used once when				you pu	rchas	e or s	ell a terminal.			
Iowa No	Iowa Notes: Only one Sold Date and/or					d Dat	te is a	llowed per EDI return.			

Condition 2 - If an account has activity, at least the TIA (Total Due/Delivered) is required. The Condition 1 REF is not used. The FGS loop contains inventory information. The FGS loop is repeated when the product code value changes.

	Ending Inventory Date										
Date/Tin	Date/Time Reference Segment Pos. No. 0300										
Element	ement Elem Sub-Ele Field Field Name F						gth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
DTM01	374		М	Date/Time Qualifier	ID	3	3	"184 = Inventory Date			
DTM02	373		Х	Date	DT	8	8	"CCYYMMDD"			
Example:											
DTM~184	~20010	0520\									
Syntax 1	Notes:		DT	M02 is required							
FTA Notes: None			No	ne							
Iowa No	otes:		No	ne							

Total Du	Cotal Due/Transported(Conditional)										
Tax Info	rmatio	on and A	mount	Segment				Pos. No. 0920			
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
TIA01	C037	817	М	Tax Information ID Number	AN	4	4	"5003" = Total Due			
								"5004" = Total Net Transported			
TIA02	782		Х	Monetary Amount	R	1	15	Dollar Amount (Total Tax Due from the			
TTL 4.02	N T .	TT 1						transactions in this file)			
TIA03		Used									
TIA04	380		Х	Quantity	R	1	15	Quantity			
TIA05	C001	355	Μ	Unit of Measurement Code	ID	2	2	"GA" = Gallons			
								<u>"LT" = Liters</u>			
Example:											
TIA~5003~	~25000	or TIA	~5003~2	5000~~100000~GA\							
Syntax I	Notes:		At	least one of TIA02 or TIA04 i	s requi	red.					
				TIA05 is present, then TIA04 i							
FTA No	FTA Notes: Total Due/Transported is passed					neck v	alue	and represents dollars and/or quantity.			
Iowa No	Iowa Notes: If TIA01 = "5003", then TIA02					tal an	noun	t due from line 16 of 81-010, Iowa Fuel			
			Tax	Return.							

Physical	Physical Inventory by Product (Conditional)										
Form G	roup S	egment						Pos. No. 1000			
Element	Element Elem Sub-Ele F			Field Name	Field	Len	igth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
FGS01	350		М	Assigned Identification	AN	2	2	"BI" = Beginning Inventory (First Filing)"EI" = Ending Inventory"GL" = Gains and Losses			
FGS02	128		Х	Reference Identification Qualifier	AN	2	2	"PG" = Product Group			
FGS03	127		Х	Reference Identification	AN	3	5	Product Code See Product Codes in <u>Appendix C</u>			
Example: FGS~EI~I		5\									
Syntax 1	Notes:		If e	ither FGS02 or FGS03 is pres	ent, th	en th	e othe	er is required.			
FTA Notes: FGS01 Recommend BI only be period's ending inventory. FGS01 GL TIA04 is Positive for								g. Beginning inventory is the previous ative for a loss.			
Iowa No	otes:		No	ne							

Sequence	Sequence Number										
Reference	Reference Number Segment Pos. No. 1100										
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
REF01	128		М	Reference Identification Qualifier	ID	2	2	"55" = Sequence Number			
REF02	127		Х	Reference Identification	AN	1	20	Sequence Number			
REF03	352		Х	Description	AN	1	5	Error Response Code (See <u>Appendix H</u>)			
Example: REF~55~(4\									
Syntax 1	Syntax Notes:This segment is used to identify information for error processing. This segment can be generated by the filer when first filing to assist in identifying information or when responding to an error reported. At least one of REF02 or REF03 is required.										
FTA No	tes:		RE	F02 is always required. REF)3 is us	ed fo	r resp	oonding to an error.			
Iowa Notes: None											

Inventor	·у							(Required if FGS is Used)		
Tax Info	rmatio	on and A	mount	Segment		Pos. No. 1800				
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field		
ID	Ref #	Ref #	Status		Туре	Min	Max	Description		
TIA01	C037	817	М	Tax Information ID Number	AN	4	4	"5002" = Net Physical Inventory		
TIA02 and	TIA03	are not use	ed							
TIA04	380		Х	Quantity	R	1	15	Quantity		
TIA05	C001	355	М	Unit of Measurement Code	ID	2	2	"GA" = Gallons		
								<u>"LT" – Liters</u>		
Example	:									
TIA~5002	2~~~1	0000~GA								
Syntax	Notes:		TLA	104 is required.						
•			If T	If TIA05 is present, then TIA04 is required.						
FTA Notes:			Phy	Physical Inventory is the only value passed. All other information is derivable from						
				schedules.						
Iowa No	Iowa Notes:									

End of FGS loop (Line item detail) End of TFS loop (detail)

Transaction Set - Summary Information

This TFS loop reports summary information. This TFS loop is used in combination with the SDR report.

Summary information is used when the information can not be derived from the schedule details. This TFS loop repeats when one of the following values change: TFS02 Summary Code, TFS04 Product Code, TFS06.

If there are no transactions to report in this filing, it is not necessary to transmit a Summary Information TFS loop.

Beginnin	Beginning of Summary Information											
Tax Form	Tax Form SegmentPos. No. 0100											
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description				
TFS01	128		М	Reference Identification Qualifier	ID	2	2	"T3" = Tax Schedule Code				
TFS02	127		М	Reference Identification	AN	1	6	TFS02 Summary Code (See <u>Appendix D</u>)				
TFS03	128		Х	Reference Identification Qualifier	ID	2	2	"PG" = Product Group				
TFS04	127		Х	Reference Identification	AN	3	5	Product Code (See <u>Appendix C</u>)				
TFS05	66		Х	Identification Code Qualifier	ID	2	2	"T2" = Tax Form Code "94" = Mode				
TFS06	67		Х	Reference Identification	AN	1	6	Report Code (See <u>Appendix I</u>) or "CE" = Mode				
Example: TFS~T3~S		G~228~94	~CE\									
Syntax 1	Notes:			If either TFS03 or TFS04 is present, then the other is required. If either TFS05 or TFS06 is present, then the other is required.								
FTA Notes:			If T	TFS02 references the report the summary is associated with. If TFS05 = "94" then TFS06 = "CE". If TFS05 = "T2" then TFS06 = Report Code (See Appendix I)								
Iowa Notes:			Noi	ie								

Relation	Relationship to the Transaction Information (Not Used)											
Reference	Reference Segment Pos. No. 0200											
Element	Elem	Sub-Ele	Field	Field Name	Field	Length		Field				
Ð	Ref #	Ref #	Status		Type	Min	Max	Description				
REF01	128		M	Reference Identification Qualifier	Ð	2	2	"SU" - Special Processing				
REF02	127		M	Reference Identification	AN	3	3	IRS – IRS Data				
								N/A = If not applicable to the IRS				
REF03 not	used											
REF04 01	C040	128	M	Reference Identification Qualifier	₽	2	2	<u> "S0" – Special Approval (S Zero)</u>				
REF04 02	C040	127	M	Reference Identification	AN	2	2	State Abbreviation for the state which it belongs to				
REF04 03	C040	128	X	Reference Identification Qualifier	₽	2	2	<u>"S0" – Special Approval (S Zero)</u>				
REF04 04	C040	127	X	Reference Identification	AN	2	2	State Abbreviation for the state which it belongs to				
Example: REF-SU-		S0^MT∖										
Syntax 1	Notes:		RE	F02 is required								
FTA Ne	tes:		RE	F02, REF04 02 and REF04 04	- repre	sent t	he ta	xing authorities and their relationship to				
				the information in this TFS loop.								
				REF05 REF07 use the sub element separator.								
Iowa No	tos.			Used by Iowa	ene sep							
Towa INC	nes.		110	coscu by Iona								

Sequence	Sequence Number									
Reference Number Segment Pos. No. 0200										
Element	Elem	Sub-Ele	Field	Field Name	Field	Length		Field		
ID	Ref #	Ref #	Status		Туре	Min	Max	Description		
REF01	128		М	Reference Identification Qualifier	ID	2	2	"55" = Sequence Number		
REF02	127		Х	Reference Identification	AN	1	20	Sequence Number		
REF03	352		Х	Description	AN	1	5	Error Response Code (See <u>Appendix H</u>)		
Example: REF~55~(000123				<u>.</u>	•	•			
Syntax Notes: At least one of REF02 and REF03 is required. FTA Notes: This segment is used to identify information for error processing. This segment can be generated by the filer when first filing to assist in identifying information or when responding to an error reported. REF02 is always required. REF03 is used for responding to an error. Iowa Notes: None										

Summary Data										
Forms Group Segment Pos. No. 1000										
Element						Ler	igth	Field		
ID	Ref #	Ref #	Status		Туре	Min	Max	Description		
FGS01	350		М	Assigned Identification	ID	1	1	"S" = Schedule Summary		
Example:	Example:									
FGS~S\										
Syntax 1	Notes:		Noi	ıe						
FTA Notes: None										
Iowa No	Iowa Notes: None									

Sequence	Sequence Number										
Reference	Reference Number Segment Pos. No. 1100										
Element	Elem	Sub-Ele	Field	Field Name	Field	Ler	ngth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
REF01	128		М	Reference Identification Qualifier	ID	2	2	"55" = Sequence Number			
REF02	127		Х	Reference Identification	AN	1	20	Sequence Number			
REF03	352		Х	Description	AN	1	5	Error Response Code (See <u>Appendix H</u>)			
Example:	Example:										
REF~55~	000123	4\									
Syntax]	Notes:		At	least one of REF02 and REF0	3 is ree	quire	1 .				
FTA No	tes:		Thi	s segment is used to identify i	nform	ation	for er	ror processing. This segment can be			
				e .				identifying information or when			
			-	ponding to an error reported.	0						
					us required. REF03 is used for responding to an error.						
Iowa No	tost		No	· · ·	50 15 U.	10	1 105	fonding to an error.			
Towa No	nes:		INO	ne							

Informa	Information										
Tax Info	Tax Information and Amount Segment Pos. No. 1800										
Element	Elem	Sub-Ele	Field	Field Name	Field	Ler	gth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
TIA01	C037	817	М	Tax Information ID Number	AN	4	4	TIA Code (See <u>Appendix D</u>)			
TIA02	782		Х	Monetary Amount	R	1	15	Dollar Amount			
TIA03 not	used										
TIA04	380		Х	Quantity	R	1	15	Quantity			
TIA05	C001	355	М	Unit of Measurement Code	ID	2	2	"GA" = Gallons			
								<u>"LT" = Liters</u>			
Example:											
TIA~5006	~5625.	00~~2500	0~GA∖								
Syntax]	Notes:		At	least one of TIA02 or TIA04 is	s requi	red.					
If TIA05 is present, the TIA04 is						ed.					
FTA No	FTA Notes: None										
Iowa No	Iowa Notes: None										

Interest	Interest										
Tax Info	Tax Information and Amount SegmentPos. No. 1800										
Element	lement Elem Sub-Ele Fiel			Field Name	Field	Ler	lgth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
TIA01	C037	817	М	Tax Information ID Number	AN	4	4	"5008" = Interest			
TIA02	782		Х	Monetary Amount	R	1	15	Dollar Amount			
Example:											
TIA~5008	8~500.0	0\									
Syntax 1	Syntax Notes: TIA02 is required										
FTA Notes: None				ne							
Iowa No	otes:		No	ne							

Penalty	Penalty										
Tax Information and Amount SegmentPos. No. 1800											
Element	Elem	Sub-Ele	Field	Field Name	Field	Ler	gth		Field		
ID	Ref #	Ref #	Status		Туре	Min	Max		Description		
TIA01	C037	817	М	Tax Information ID Number	AN	4	4	"5009" = Penalty			
TIA02	782		Х	Monetary Amount	R	1	15	Dollar Amount			
Example:											
TIA~5009	~250.0	0\									
Syntax 1	Syntax Notes: TIA02 is required										
FTA Notes:			No	None							
Iowa No	otes:		No	ne							

End of FGS loop (Summary Data) End of TFS loop (Summary Information) This TFS loop begins the schedule detail. It repeats when one of the following values change: Tax Form Code, Schedule Code, Mode Code, Product Code, Origin, Position Holder, Seller, Consignor, Carrier, Buyer, Consignee or Destination.

If there are no transactions to report in this filing, it is not necessary to transmit a Schedules TFS loop. You must indicate no activity in the TOR, SDR, CCR and/or other report type sections of this map.

Transaction Set - Schedules

Beginnir	Beginning of Schedules												
Tax For	m Segi	ment						Pos. No. 0100					
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field					
ID	Ref #	Ref #	Status		Туре	Min	Max	Description					
TFS01	128		М	Reference Identification Qualifier	ID	2	2	"T3" = Tax Schedule Code					
TFS02	127		М	Reference Identification	AN	1	6	Schedule Type Code (See <u>Appendix B</u>)					
TFS03	128		Х	Reference Identification Qualifier	ID	2	2	"PG" = Product Group					
TFS04	127		Х	Reference Identification	AN	3	5	Product Code					
								(See <u>Appendix C</u>)					
TFS05	66		Х	Identification Code Qualifier	ID	2	2	"94" = Mode					
TFS06	67		Х	Identification Code	AN	2	2	Transaction Type Mode Code					
								(See <u>Appendix E</u>)					
Example: TFS~T3~1		65~94~J \											
Syntax 1	Notes:		No	ne									
FTA No	FTA Notes:			If either TFS03 or TFS04 is present, then the other is required.									
				itherTFS05 or TFS06 is prese									
Iowa No	otes:		If N	If Mode Code has only one character ("J", add a blank space to the end ("J").									

Relation	Relationship to the Transaction Information (Not Used)											
Reference	Reference Segment Pos. No. 0200											
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	igth	Field				
Ð	Ref#	Ref #	Status		Type	Min	Max	Description				
REF01	128		M	Reference Identification Qualifier	Ð	2	2	"SU" - Special Processing				
REF02	127		M	Reference Identification	AN	3	3	IRS – IRS Data				
								N/A = If not applicable to the IRS				
REF03 not	used											
REF04	C040	128	M	Reference Identification Qualifier	Ð	2	2	<u>"S0" = Special Approval (S Zero)</u>				
REF05	C040	127	M	Reference Identification	AN	2	2	State Abbreviation for the state which it belongs to				
REF06	C040	128	X	Reference Identification Qualifier	Ð	2	2	<u>"S0" = Special Approval (S Zero)</u>				
REF07	C040	127	X	Reference Identification	AN	2	2	State Abbreviation for the state which it belongs to				
Example:	÷											
REFSU	IRS	S0^MT\										
Syntax 1	Notes:		RE	F02 is required								
FTA No	tes:		RE	REF02, REF05 and REF07 represent the taxing authorities and their relationship to the								
				information in this TFS loop.								
				REF05 REF07 use the sub element separator.								
Iowa No	tos.			Used by Iowa	une sep	att						
Iowa IN	nes.		1400	Used by Iowa								

Sequence	Sequence Number										
Reference Number Segment Pos. No. 0200											
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	igth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
REF01	128		М	Reference Identification Qualifier	ID	2	2	"55" = Sequence Number			
REF02	127		Х	Reference Identification	AN	1	20	Sequence Number			
REF03	352		Х	Description	AN	1	5	Error Response Code (See Appendix H)			
Example: REF~55~(000123		At	loost one of DEE07 and DEE0	3 is ro	mira	4				
Syntax Notes: At least one of REF02 and REF03 is required. FTA Notes: This segment is used to identify information for error processing. This segment can be generated by the filer when first filing to assist in identifying information or when responding to an error reported. REF02 is always required. REF03 is used for responding to an error. Iowa Notes: None											

For Point of Origin/Terminal: (One of the following Options is Required)

Use Option 1 when the origin has an IRS TCN.

Use Option 2 when the origin does not have an IRS TCN.

Use Option 3 when the state requires an origin facility ID (currently used by the state of Florida)

Option 1											
Point of	Point of Origin (One of three options is required)										
Name Segment 1 Pos. No.											
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
N101	98		М	Entity Identification Code	ID	2	2	"OT" = Origin Terminal			
N102	Not	Used									
N103	66		Х	Identification Code Qualifier	ID	2	2	"TC" = IRS Terminal Code			
N104	67		Х	Identification Code	AN	9	9	IRS Terminal Code (See <u>Appendix G</u>)			
Example:											
N1~OT~~	TC~T42	2IA3457\									
Syntax Notes: N103 and N104 are required											
FTA No	FTA Notes: None										
Iowa No	Iowa Notes: None										

Option 2	Option 2										
Point of Origin (One of three options											
Name Se	gment	t 1						Pos. No. 0500			
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
N101	98		М	Entity Identification Code	ID	2	2	"SF" = Ship From			
N102	93		Х	Name	ID	2	2	Origin State Abbreviation			
Example:											
N1~SF~IA	.\										
Syntax Notes: N102 is required											
FTA No	FTA Notes: None										
Iowa No	Iowa Notes: None										

Point of	Point of Origin											
Name Se	Name Segment 1 Pos. No. 0500											
Element	Element Elem Sub-Ele F		Field	Field Name	Field	Len	gth	Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description				
N401	19		0	City Name	AN	2	30	Name of City				
N402	156		0	State or Province Code	ID	2	2	State or Province Abbreviation				
N403	116		0	Postal (Zip) Code	ID	3	11	Zip Code, Zip Plus 4 Code or Foreign Postal Code				
N404	26		0	Country Code	ID	2	3	Country Abbreviation (United States = USA)				
N405	309		Х	Location Qualifier	ID	1	2	"CY" = County				
N406	310		0	Location Identifier	AN	1	5	County				
Example: N4~Des M		A~50317-2	2222~US	$ \mathbf{A}\rangle$								
Syntax	Notes:		No	ne								
FTA No	otes:		N4(N404 through N406 are optional								
			N4(N406 is based on the federal county codes								
				405 and N406 are not in the IRS 4030 map								
Iowa No	Iowa Notes: None											

Option 3											
Point of Origin (One of three options is required)											
Name Segment 1 Pos. No. 0500											
Element Elem Sub-Ele F			Field	Field Name	Field	Length		Field			
Ð	Ref #	Ref #	Status		Type	Min	Max	Description			
N101	98		M	Entity Identification Code	Ð	2	2	"WO" = Storage Facility at Origin			
N102	Not	Used									
N103	66		X	Identification Code Qualifier	Ð	2	2	"FA" - Facility Identification			
N104	67		X	Identification Code	AN	2	20	Nonterminal Storage Facility License Number			
Example: N1- WO FA- 714123456											
Syntax Notes: N103 and N104 are required											
FTA Notes:				None							
Iowa Notes:				Not Used by Iowa							

Seller/Supplier Information												
Name Segment 2 Pos. No. 0500												
Element	Elem	Sub-Ele	Field	Field Name	Field	Length		Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description				
N101	98		М	Entity Identification Code	ID	2	2	"SE" = Selling Party				
N102	93		Х	Name	AN	1	35	Seller's Name				
N103	66		Х	Identification Code Qualifier	ID	2	2	"24" = FEIN				
								"34" = SSN				
								"50" = BN – Canadian Business Number				
N104	67		Х	Identification Code	AN	9	18	Seller's FEIN, SSN, or BN				
Example:												
N1~SE~Fuel Seller Inc~24~419999999												
Syntax Notes:			At	At least one of N102 and N103 are required								
•				If either n103 or N104 is present, the other is required								
FTA No	tes:		N1	N102, N103, N104 are required								
Iowa Notes:			No	None								

Position Holder Information or Delivering Exchange Party Information												
Name Segment 3 Pos. No. 0500												
Element	Elem	Sub-Ele	Field	Field Name	Field	Ler	igth	Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description				
N101	98		М	Entity Identification Code	ID	2	2	"ON" = Position Holder				
N102	93		Х	Name	AN	1	35	Position Holder's Name				
N103	66		Х	Identification Code Qualifier	ID	2	2	"24" = FEIN "34" = SSN "50" = BN – Canadian Business Number <u>"FI" = Federal Taxpayer 637 ID Number</u>				
N104	67		Х	Identification Code	AN	9	18	Position Holder's FEIN, SSN, or BN or IRS 637 Number				
Example: N1~ON~Fuel Position Holder Inc~24~419999999\												
Syntax Notes:				At least one of N102 and N103 are required If either n103 or N104 is present, the other is required								
FTA Notes:			2-р	If reporting position holder or 2-party exchange information this segment is required. For 2-party exchanges this segment defines the party of origin. N102, N103, N104 are required.								
Iowa Notes:			No	None								

Receiving Exchange Party Information												
Name Segment 4 Pos. No. 0500												
Element	Elem	Sub-Ele	Field	Field Name	Field	Length		Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description				
N101	98		М	Entity Identification Code	ID	2	2	"EC" = Exchanger				
N102	93		Х	Name	AN	1	35	Exchange Party Name				
N103	66		Х	Identification Code Qualifier	ID	2	2	"24" = FEIN				
								"34" = SSN				
								"50" = BN – Canadian Business Number				
								"FI" = Federal Taxpayer 637 ID Number				
N104	67		Х	Identification Code	AN	9	18	Exhanger's FEIN, SSN, or BN or IRS 637 Number				
Example:												
N1~EC~Fuel Exchange Receiver Inc~24~419999999\												
Svntax I	Syntax Notes: At least one of N102 and N103											
				If either n103 or N104 is present, the other is required								
FTA Notes: N1				N102, N103, N104 are required.								
Iowa No	Iowa Notes:			None								

Person H	Person Hiring Carrier (Consignor)										
Name Se	egment	t 4						Pos. No. 0500			
Element	Clement Elem Sub-Ele F		b-Ele Field	eld Field Name	Field	Length		Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
N101	98		М	Entity Identification Code	ID	2	2	"CI" = Consignor Name (Person Hiring the			
								Carrier)			
N102	93		Х	Name	AN	1	35	Consignor Name			
N103	66		Х	Identification Code Qualifier	ID	2	2	"24" = FEIN			
								"34" = SSN			
								"50" = BN – Canadian Business Number			
N104	67		Х	Identification Code	AN	9	18	Consignor's (Person Hiring the Carrier) FEIN,			
								SSN, or BN			
Example:	:										
N1~C1~Fu	uel Cons	signor Inc~	24~4199	99999\							
Syntax 1	Notes:		At	least one of N102 and N103 a	are requ	ired					
				ither n103 or N104 is presen			reau	ired			
FTA No	otes:			02, N103, N104 are required			1.				
				None							

Carrier	Carrier Information										
Name Se	Name Segment 6 Pos. No. 0500										
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
N101	98		М	Entity Identification Code	ID	2	2	"CA" = Carrier Name			
N102	93		Х	Name	AN	1	35	Carrier's Name			
N103	66		Х	Identification Code Qualifier	ID	2	2	"24" = FEIN "34" = SSN "50" = BN – Canadian Business Number			
N104	67		Х	Identification Code	AN	9	18	Carrier's FEIN, SSN, or BN			
Example: N1~CA~F		rier Inc~24	~4199999	999\							
Syntax]	Syntax Notes:At least one of N102 and N103 and If either n103 or N104 is present.						requ	ired			
FTA No	FTA Notes: N102, N103, N104 are required.										
Iowa No	ne										

Buyer/C	Buyer/Consignee Information										
Name Se	Name Segment 7 Pos. No. 0500										
Element	Element Elem Sub-Ele F		Field	Field Name	Field	Length		Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
N101	98		М	Entity Identification Code	ID	2	2	"BY" = Buying Party (Buyer/Consignee)			
N102	93		Х	Name	AN	1	35	Buyer/Consignee's Name			
N103	66		Х	Identification Code Qualifier	ID	2	2	"24" = FEIN "34" = SSN			
								"50" = BN – Canadian Business Number			
N104	67		Х	Identification Code	AN	9	18	Buyer/Consignee's FEIN, SSN, or BN			
Example: N1~BY~F		haser Inc~	24~4199	99999\							
Syntax Notes:At least one of N102 and N103 are requiredIf either n103 or N104 is present, the other is required								ired			
FTA No	tes:		N1	02, N103, N104 are required.							
Iowa No	otes:		No	ne							

For Point (Address) of Delivery/Destination: (One of the following Options is Required)

Use Option 1 when the origin has an IRS TCN.

Use Option 2 when the origin does not have an IRS TCN.

Use Option 3 when the state requires a destination facility ID (currently used by the state of Florida)

Option 1										
Point of	Destin	ation						(One of the three options is used)		
Name Segment 8 Pos. No. 0500										
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field		
ID	Ref #	Ref #	Status		Туре	Min	Max	Description		
N101	98		М	Entity Identification Code	ID	2	2	"DT" = Destination Terminal		
N102 is no	ot used									
N103	66		Х	Identification Code Qualifier	ID	2	2	"TC" = IRS Terminal Code		
N104	67		Х	Identification Code	AN	9	9	IRS Terminal Code (See <u>Appendix G</u>)		
	Example: N1~DT~~TC~T42IA3457\									
Syntax 3	Syntax Notes: N103 and N104 are required									
FTA No	FTA Notes: None									
Iowa No	otes:		No	ne						

	Option 2										
estina	ation						(One of the three options is used)				
ment	8					Pos. No. 0500					
Element Elem Sub-Ele Field Field Name					Len	gth	Field				
Ref #	Ref #	Status		Туре	Min	Max	Description				
98		М	Entity Identification Code	ID	2	2	"ST" = Ship To				
93		Х	Name	AN	2	2	Destination State Abbreviation (See <u>Appendix F</u>)				
Syntax Notes: N102 is required											
FTA Notes: None											
Iowa Notes: None											
E R C	ment lem ef # 98 93 93 otes:	Ment 8 Sub-Ele def # 98 93	ment 8 lem Sub-Ele Field sef # Ref # Status 98 M 93 X otes: N10 s: No	ment 8 Idem Sub-Ele Field Field Name 98 M Entity Identification Code 93 X Name otes: N102 is required s:	ment 8 Idem Sub-Ele Field Field Field Type 98 M Entity Identification Code ID 93 X Name AN otes: N102 is required None	ment 8 Idem Sub-Ele Field Field Len def # Ref # Status Type Min 98 M Entity Identification Code ID 2 93 X Name AN 2 otes: N102 is required s: None	ment 8 Idem Sub-Ele Field Field Name Field Length def # Ref # Status Type Min Max 98 M Entity Identification Code ID 2 2 93 X Name AN 2 2				

Point of	Point of Destination											
Name Se	Name Segment 8 Pos. No. 0500											
Element	Elem	Sub-Ele	Field	Field Name	Field	eld Length		Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description				
N401	19		0	City Name	AN	2	30	Name of City				
N402	156		0	State or Province Code	ID	2	2	State or Province Abbreviation				
N403	116		0	Postal (Zip) Code	ID	3	11	Zip Code, Zip Plus 4 Code or Foreign Postal Code				
N404	26		0	Country Code	ID	2	3	Country Abbreviation (United States = USA)				
N405	309		Х	Location Qualifier	ID	1	2	"CY" = County				
N406	310		0	Location Identifier	AN	1	5	County				
Example:												
N4~Des M	loines~I	A~50317-2	2222~US	A								
Syntax 1		No	ne									
FTA No	tes:		N4(N404 through N406 are optional								
				N406 is based on the federal county codes								
				N405 and N406 are not in the IRS 4030 map								
Iowa No	Iowa Notes: None											

Option 3										
Point of	Destin	ation —						(One of the three options is used)		
Name Segment 8 Pos. No. 0500										
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field		
Ð	Ref #	Ref #	Status		Type	Min	Max	Description		
N101	98		M	Entity Identification Code	₽	2	2	"WD" = Destination Facility		
N102 is not used										
N103	66		X	Identification Code Qualifier	Ð	2	2	"FA" = Facility Identification		
N104	67		X	Identification Code	AN	9	20	Nonterminal Storage Facility License Number		
	Example: N1- WD FA-714123456\									
Syntax 3	Syntax Notes: N103 and N104 are required									
FTA No	FTA Notes: None									
Iowa No	otes:		Not	t Used by Iowa.						

This FGS loop begins the individual shipments within the TFS loop. It is repeated when one of the following values changes:

- Bill of Lading (Document) Number
- Bill of Lading Date (Date Shipped)
- Gallons

Bill of La	Bill of Lading										
Forms G	Forms Group Segment Pos. No. 1000										
Element	Elem Sub-Ele Field Field Name Field Length		Field								
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
FGS01	350		М	Assigned Identifications	AN	1	1	"D" = Schedule Detail			
FGS02	128		Х	Reference Identification Qualifier	ID	2	2	"BM" = Bill of Lading Number			
FGS03	FGS03 127 X Reference Identification			AN	1	15	Bill of Lading Number				
Example:											
FGS~D~B	M~001	23456\									
Syntax 1	Syntax Notes: If either FGS02 or FGS03 is pres							er is required.			
FTA No	FTA Notes: None										
Iowa No	Iowa Notes: None										

Sequence	Sequence Number											
Reference	Reference Number Segment Pos. No. 1100											
Element	ement Elem Sub-Ele Field		Field	Field Name	Field	Len	igth	Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description				
REF01	128		М	Reference Identification Qualifier	ID	2	2	"55" = Sequence Number				
REF02	127		Х	Reference Identification	AN	1	20	Sequence Number				
REF03												
Example:												
REF~55~(000123	4\										
Syntax 3	Notes:		At	least one of REF02 and REF0.	3 is ree	quirea	1.					
FTA No	otes:		Thi	is segment is used to identify i	nform	ation	for er	ror processing. This segment can be				
								identifying information or when				
			res	ponding to an error reported.	0							
	REF02 is always required. REF							oonding to an error.				
Iowa No	Iowa Notes: None											

	Bill of Lading Date Date/Time Reference Segment Pos. No. 1200									
Element						Field				
ID	Ref #	Ref #	Status		Туре	Min	Max	Description		
DTM01	374		М	Date/Time Qualifier	ID	3	3	"095" = Bill of Lading Date		
DTM02	373		Х	Date	DT	8	8	Bill of Lading Date (CCYYMMDD)		
	Example: DTM~095~20050831\									
Syntax]	Syntax Notes: DTM02 is required									
FTA Notes: None										
Iowa Notes: None										

Bill of La	Bill of Lading Net										
Tax Info	Tax Information and Amount SegmentPos. No. 1800										
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
TIA01	C037	817	М	Tax Information ID Number	AN	4	4	"5005" = Net			
TIA02	Not	Used									
TIA03	Not	Used									
TIA04	380		Х	Quantity	R	1	15	Quantity			
TIA05	C001	355	М	Unit of Measurement Code	ID	2	2	"GA" = Gallons			
								<u>"LT" = Liters</u>			
Example:											
TIA~5005	~~~800	0~GA∖									
Syntax I	Syntax Notes: TIA04 and TIA05 are required										
FTA No	tes:		Nu	mbers should be reported as p	ositive	for t	oth d	lisbursements and receipts			
Iowa No	otes:		No	None							

Bill of La	Bill of Lading Gross										
Tax Info	Tax Information and Amount SegmentPos. No. 1800										
Element	Elem	Sub-Ele	Field	Field Name	Field	Length		Field			
ID	Ref #	Ref #	Status		Туре	Min	Max	Description			
TIA01	C037	817	М	Tax Information ID Number	AN	4	4	"5006" = Gross			
TIA02	Not	Used									
TIA03	Not	Used									
TIA04	380		Х	Quantity	R	1	15	Quantity			
TIA05	C001	355	М	Unit of Measurement	ID	2	2	"GA" = Gallons			
								<u>"LT" = Liters</u>			
Example:											
TIA~5006	~~~800	0~GA∖									
Syntax 1	Syntax Notes: TIA04 and TIA05 are required										
FTA No	FTA Notes: Numbers should be reported as					for t	oth d	lisbursements and receipts			
Iowa No	otes:		No	None							

Bill of La	Sill of Lading Billed								
Tax Info	Fax Information and Amount SegmentPos. No. 1800								
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	igth	Field	
ID	Ref #	Ref #	Status		Туре	Min	Max	Description	
TIA01	C037	817	М	Tax Information ID Number	AN	4	4	"5007" = Billed	
TIA02	Not	Used							
TIA03	Not	Used							
TIA04	380		Х	Quantity	R	1	15	Quantity	
TIA05	C001	355	М	Unit of Measurement	ID	2	2	"GA" = Gallons	
								"LT" – Liters	
Example:									
TIA~5007	~~~800	0~GA∖							
Syntax Notes: TIA04 and TIA05 are required									
FTA No	FTA Notes: Numbers should be reported as p					e for k	ooth d	lisbursements and receipts	
Iowa No	otes:		No	ne					

End of FGS loop for individual shipments. End of TFS loop for Schedule.

Transaction Set - Trailer Description

End of T	End of Transaction Set (Required)								
Trailer S	Frailer Segment Pos. No. 0100								
Element Elem Sub-Ele Field Field Name Field						Ler	Length Field		
ID	Ref #	Ref #	Status		Туре	Min	Max	Description	
SE01	96		М	Number of Included Segments	N0	1	10	Number of segments (inserted by translator)	
SE02 329			М	Transaction Set Control Number	AN	4		Determined by Filer (same value in ST02, unique control number)	
Example: SE~156~1									
Syntax]		No	ne						
FTA No	FTA Notes: None								
Iowa No	Iowa Notes: None								

End of Transaction Set

Chapter 6 - 997 Functional Acknowledgment

ANSI ASC X12 - 997 EDI Standard

RELE	ASE • 00	4030		TRAN	SACTION SET	FABLES • 99
ç	997	Fun	ctional Acknowledgment			
		Funct Interconset of encoor functi	Draft Standard for Trial Use contains the format a tional Acknowledgment Transaction Set (997) for thange (EDI) environment. The transaction set ca acknowledgments to indicate the results of the se ded documents. The encoded documents are the onal groups, used in defining transactions for bu over the semantic meaning of the information en-	r use within the context of an be used to define the syntactical analysis of the e transaction sets, which siness data interchange	of an Electron control struct e electronical are grouped . This standa	ic Data tures for a ly in
		Tab	le 1			
NOTE	POS.NO.	SEG.ID	NAME	REQ.DES.	MAX USE LO	OP REPEAT
Ν	0100	ST	Transaction Set Header	М	1	
Ν	0200	AK1	Functional Group Response Header	М	1	
			LOOP ID - AK2			999999
Ν	0300	AK2	Transaction Set Response Header	0	1	
~	0.400		LOOP ID - AK3	-		999999
С	0400 0500		Data Segment Note Data Element Note	0 0	1 99	
	0600		Transaction Set Response Trailer	M	1	
	0700		Functional Group Response Trailer	М	1	
	0800	<u>SE</u>	Transaction Set Trailer	м	1	
с	1/0200 1/0300 OMMEN ⁻	applic ackno applic There AK1 i be or AK2 i shall ackno TS The o transa group	action Sets. In preparing the functional group of acknowledge bation receiver's code, taken from the functional group being weledgment functional group responds to only those function ation sender's code. It is only one Functional Acknowledgment Transaction Set per used to respond to the functional group header and to star the AK1 segment for the functional group header and to star e AK1 segment for the functional group that is being acknow s used to start the acknowledgment of a transaction set with appear in the same order as the transaction sets in the funct wiedged.	acknowledged, are exchange nal groups from one application er acknowledged functional gro tt the acknowledgment for a fu wedged. An the received functional grout tional group that has been rec	d; therefore, one n receiver's code oup. nctional group. up. The AK2 seg eived and is bein the functional gre saction sets and	e to one Fhere shall iments ng pups of functional
	:MBER 1					

3

³ Data Interchange Standards Association, Inc. (DISA)

997 EDI Map

The 997 Functional Acknowledgment notifies the Information Provider that their EDI file was received. Translators create the 997 ACK when the translator processes an EDI file. This ACK is designed to pass back through the Information Provider/Transmitter's translator to notify the Information Provider/Transmitter that the EDI file was accepted, accepted with errors or rejected. If the EDI file is rejected, the Information Provider/Transmitter must fix the file and send a new EDI file.

Transaction Set - Header Description

Beginnir	Beginning of Transaction Set (Required) Pos. No. 0100									
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field		
Ð	Ref#	Ref #	Status		Type	Min	Max	Description		
ST01	143		M	Transaction Set Code	Ð	3	3	<u>"997" – Transaction Set Type</u>		
ST02	329		M	Transaction Set Control Number	AN	4	9	Translator defined (same value in SE02, unique		
								control number)		

Function	Yunctional Group Response Header (Required) Pos. No. 0200 Pos. No. 0200									
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	igth	Field		
ID	Ref #	Ref #	Status		Type	Min	Max	Description		
AK101	4 79		M/Z	Transaction Set Identifier Code	₽	2	2	Functional ID found in the GS segment (GS01) of the functional group being acknowledged. Equals one of the following: TF = 813 RD = 820 TI = 826 TA = 151		
AK102	28		M/Z	Group Control Number	N0	1	9	Functional group control number found in the GS segment (GS02) of the functional group being acknowledged.		

Transac	Transaction Set Response Header (Optional) Pos. No. 0300									
Element	Elem	Sub-Ele	Field	Field Name	Field	Len	gth	Field		
Ð	Ref #	Ref #	Status		Type	Min	Max	Description		
AK201	143		M/Z	Functional Identifier Code	₽	3	3	Transaction set ID found in the ST segment (ST01) of the transaction set being acknowledged. Equals one of the following: 813, 820, 826, 151		
AK202	329		M/Z	Transaction Set Control Number	AN	4	9	Transaction set control number found in the ST segment (ST01) of the transaction set being acknowledged.		

Element	Elem	Sub-Ele	Field	Field Name	Field	Len	igth	Field
Ð	Ref #	Ref #	Status		Type	Min	Max	Description
AK301	721		M	Segment ID Code	₽	2	3	Code defining the segment ID of the segment in error. See X12 guide for codes.
AK302	719		M	Segment Position in Transaction Set	N0	+	6	The position of the segment counted from the transaction set header (ST). The transaction set header is 1.
AK303	447		θ	Loop Identifier Code	AN	1	6	Loop ID number given on the transaction set diagram.
AK304	720		θ	Segment Syntax Error Code	₽	+	3	1 - Unrecognized segment ID 2 - Unexpected segment 3 - Mandatory segment missing 4 - Loop occurs over maximum times 5 - Segment exceeds maximum use 6 - Segment not in defined transaction set 7 - Segment not in groper sequence 8 - Segment has data element errors

Element	Elem	Sub-Ele	Field	Field Name	Field	Len	igth	Field
Ð	Ref #	Ref #	Status		Type	Min	Max	Description
AK401	C030		M	Position in Segment				Code indicating relative position of element in error. See X12 guide for further information.
AK401	C030	722	M	Element Position in Segment	N0	+	2	
AK401	C030	1528	θ	Component Data Element Position in Composit	N0	4	2	
AK401	C030	1686	0	Repeating Data Element Position	N0	1	4	
AK402	725		θ	Data Element Reference Number	N0	4	4	Reference number used to locate the element in th Data Element Dictionary.
AK403	723		H	Data Element Syntax Error Code	₽	+	3	 1 = Mandatory data element missing 2 = Conditional required data element missing 3 = Too many data elements 4 = Data element too short 5 = data element too long 6 = Invalid eharacter in data element 7 = Invalid ende value 8 = Invalid date 9 = Invalid time 10 = Exclusion condition violated 12 = Too may repetitions 13 = Too many components
AK404	724		O/Z	Copy of Bad Data Element	AN	4	99	A copy of the bad data element.

Element	Elem	Sub-Ele	Field	Field Name	Field	Ler	eth	Pos. No. 0600 Field
Đ	Ref #	Ref#	Status		Type	Min	Max	Description
4 K501	717		M	Transaction Set Acknowledgement Code	₽	+	+	$\begin{array}{l} A = Accepted \\ \hline E = Accepted but errors were noted \\ \hline M = Rejected, message authentication code failed \\ \hline R = Rejected \\ \hline W = Rejected, assurance failed validity tests \\ \hline X = Rejected, content after decryption could not be analyzed \\ \hline \end{array}$
4K502	718		θ	Transaction Set Syntax Error Code	Ð	1	3	1 - Transaction set not supported
\K503	718		θ	Transaction Set Syntax Error Code	Ð	1	3	2 = Transaction set trailer missing
\K504	718		θ	Transaction Set Syntax Error Code	Ð	1	3	3 = Transaction set control number in header and
\K505	718		θ	Transaction Set Syntax Error Code	Ð	1	3	trailer do not match.
\K506	718		θ	Transaction Set Syntax Error Code	₽	4	3	4 — Number of included segments does not match actual count
								 6 = Missing or invalid transaction set identifier 7 = Missing or invalid transaction set control number 8 = Authentication key name unknown 9 = Encryption key name unknown 10 = Requested service (authentication or encryption) not available 11 = Unknown security recipient 12 = Incorrect message length (encryption only) 13 = Message authentication code failed 15 = Unknown security originator 16 = Syntax error in decryption text 17 = Security not supported 23 = Transaction set control number not unique within the functional group. 24 = S3E security end segment missing for S3E security 25 = S3S security start segment missing for S4S security 26 S4E security end segment missing for S4S security 27 = S4S security start segment missing for S4E security end segment missing for S4E

This segment acknowledges acceptance or rejection and reports errors. Refer to the X12 standards guide for further definition.

						1		Pos. No. 0700
Element	Elem	Sub-Ele	Field	Field Name	Field	Ler		Field
Ð	Ref #	Ref #	Status		Type	Min	Max	Description
AK901	715		M	Functional Group Acknowledgement Code	Ð	+	1	$ \begin{array}{l} A = Accepted \\ E = Accepted but errors were noted \\ M = Rejected, message authentication code failed \\ R = Rejected \\ W = Rejected, assurance failed validity tests \\ X = Rejected, content after decryption could not \\ analyzed \\ \end{array} $
AK902	97		M	Number of Transaction Sets Included	N0	1	6	Number of Transaction Sets Included
AK903	123		M	Number of Received Transaction Sets	N0	1	6	Number of Received Transaction Sets
AK904	2		M	Number of Accepted Transaction Sets	N0	1	6	Number of Accepted Transaction Sets
AK905	716		θ	Functional Group Syntax Error Code	₽	1	3	$\frac{1 - \text{Functional group not supported}}{2 - \text{Functional group version not supported}}$
AK906	716		θ	Functional Group Syntax Error Code	₽	1	3	3 = Functional group trailer missing 4 = Group control number in the functional group
AK907	716		θ	Functional Group Syntax Error Code	₽	1	3	
AK908	716		θ	Functional Group Syntax Error Code	₽	1	3	6 - Group control number violates syntax
AK909	716		θ	Functional Group Syntax Error Code	Ð	÷	3	 10 = Authentication key name unknown 11 = Encryption key name unknown 12 = Requested service (authentication or encryption) not available 13 = Unknown security recipient 14 = Unknown security originator 15 = Syntax error in decrypted text 16 = Security not supported 17 = Incorrect message length (encryption only) 18 = Message authentication code failed 23 = Transaction set control number not unique within the functional group. 24 = S3E security end segment missing for S3E security 25 = S3S security start segment missing for S3E security 26 S4E security end segment missing for S4S security 27 = S4S security start segment missing for S4E security end segment missing for S4E security

Transaction Set Trailer Description

	End of Transaction Set (Required) Trailer Segment Pos. No. 0800								
Element Elem Sub-Ele Field Field Name Field Length Field									
Ð	Ref#	Ref #	Status		Type	Min	Max	Description	
SE01	96	96	M	Number of Included Segments	N0	+	10	Number of segments (inserted by translator)	
SE02	329	329	M	Transaction Set Control Number	AN	4	9	Determined by Filer (same value in ST02, unique	
								control number)	
Example:	÷								
<u>SE-6-100</u> \									

End of Transaction Set

An example of a 997 ACK can be found below.

The file you receive will be a continuous stream of data; no carriage returns or line feeds.

ISA-00-000000000-00-000000000-ZZ-123456789000000-990913-1512-|-00403-0000000001-0-P-GS-FA-040539587050-INTERNALROUTING-20050913-1510-1001-X-004030\ ST-997-0014\ AK1-TF-52001\ AK2-813-000000124\ AK5-A\ AK5-A\ AK9-A-1-1-1\ SE-6-0014\ GE-1-1001\ IEA-1-0000000001\

Appendix A - Trading Partner Agreement

Iowa Department of Revenue

Trading Partner Agreement For Electronic Data Exchange

This Agreement is entered into on _____(date), by and between the *Iowa Department of Revenue* ("Department") and _____("Licensee").

The Department and the Licensee wish to provide a means by which the Licensee will file its Iowa Motor Fuel terminal operator, supplier and/or carrier report(s) by electronically transmitting data in substitution for conventional, paper-based documents and to assure that such report is legally valid and enforceable. In order to achieve this goal, the parties agree as follows:

- 1. **Terms and Amendments:** This agreement shall be effective on the date shown above and shall continue until terminated by either party. A party may terminate this agreement by giving thirty (30) days written notice to the other party or by the cancellation of their Motor Fuels License. This agreement may be amended at any time by executing a written addendum signed by both the Licensee and the Department.
- 2. **Standards:** The Licensee will electronically transmit report(s) to the Department according to the Department's standards and instructions that may be revised/updated by the Department from time to time. The Department will provide these standards and instructions to the Licensee in a reasonable time frame in advance of due dates to allow compliance with filing requirements.
- 3. **Transmission:** The Licensee will access the Department's internet website and upload the EDI file to a Department approved secure web server (https).
- 4. System Operations and Security Procedures: The Licensee, at its own expense, shall provide and maintain the equipment, software, services and testing necessary for the Licensee to transmit the electronic report(s). The Department, at its own expense, shall provide and maintain the equipment, software, services and testing necessary for the Department to receive the electronic report(s). Each party shall use security procedures which are reasonably sufficient to ensure that all transmissions of the report(s) are authorized and to protect its business records and data from improper access. In addition, the Licensee will comply with all security procedures established and required by the Department.
- 5. Signatures: The Licensee's identification number and password, when included as part of the report filed pursuant to this agreement, shall constitute the signature of the Licensee on the report as if such report were actually signed by the Licensee. Each Party shall adopt as its signature an electronic identification consisting of codes in each electronic transmission submitted by such Party (the Signature). Each Party agrees that any signature of a Party affixed to or contained in any electronic transmission shall be sufficient to verify the Party originated such electronic transmission. Neither Party shall disclose to any unauthorized person the Signature of the other Party.
- 6. **Receipt of Transmission:** A report shall be deemed to have been filed with the department when the report, in the stipulated format, is accessible to the Department or the Department's third party service provider and meets the requirements of the taxing authority. If the Licensee attempts to file and is unable to do so because the Receipt Computer is not available to receive a filing, the department will not impose late filing penalties or interest provided the Licensee contacts the Department immediately when an access problem is identified.

- 7. Acknowledgement of Transmission: Upon receiving a successfully transmitted report from the Licensee, the Department or the Department's third party service provider will transmit an acknowledgement in return within one (1) business day from receipt of the Licensee's report. The acknowledgement will communicate only that Department has received the Licensee's transmission. An acknowledgement does not imply any findings by the Department about the correctness of the report. A transmission that is received by the Department but is not in the stipulated format will not constitute a valid report.
- 8. **Garbled Transmissions:** If any transmission is received in an unintelligible or garbled form and the Department cannot identify the Licensee, no acknowledgement will be transmitted. The absence of an acknowledgement shall be treated as notice to the Licensee that the report was not received by the Department in the required format.
- 9. **Record Retention:** The Licensee shall maintain records of the transactions covered by electronic filings for a period of not less than three years from the due date of the filing. Each party agrees to maintain adequate back-up files to recreate electronic transmissions as required. Back-up files shall be subject to the terms of this Agreement to the same extent as the original data. Electronic transmissions shall be retained for such periods as required by relevant Iowa statutes.
- 10. Admissibility of Returns/Reports as Evidence: A certified copy of any report may be introduced in paper form as evidence in any judicial or administrative proceeding by either party to the same extent and under the same conditions as any other business record. Neither party shall contest the admissibility of any report on the basis that it was not originated or maintained in paper form.
- 11. **Payments:** Any licensee filing a return electronically under this Agreement shall make payment of the taxes due, if greater than zero, by use of electronic payment. The Licensee shall follow the procedures of the Department's eFile and Pay Program.
- 12. Governing Law: This Agreement shall be governed by, and interpreted in accordance with the laws of the state of Iowa.
- 13. **Identifying Codes & Numbers:** To ensure proper identification of electronically transmitted reports, the parties will exchange the identifying qualifiers. Any changes in these qualifiers will be communicated to the other party before any transmission using the new qualifiers is sent.

Licensee:

Print Name of Licensee or Authorized Agent

Signature of Licensee or Authorized Agent

Date

Department:

Print Name of Authorized Agent

Signature of Authorized Agent

Date

Appendix B - Iowa Schedule Codes

Schedule Code	Schedule of Receipts	Tax Calc Status
1A	Gallons received originating state tax-paid.	Not included in tax calculation.
1G	Gallons received fully taxed at a reduced rate (for blending).	Not included in tax calculation.
2	Gallons received from motor fuel licensee tax unpaid.	Not included in tax calculation.
2A	Gallons received from terminals, refineries or distributors, origin tax-unpaid.	Not included in tax calculation.
2B	Gallons received tax-unpaid, blendable stock.	Not included in tax calculation.
2X	Gallons received from suppliers on exchange agreements tax unpaid.	Not included in tax calculation.
3	Gallons imported from another state direct to customer	Included in tax calculation as taxable gallons.
3A	Gallons imported from terminals/refineries.	Included in tax calculation as taxable gallons.
3B	Gallons imported from bulk storage in another state.	Included in tax calculation as taxable gallons.
Schedule Code	Schedule of Disbursements	Tax Calc Status
5	Gallons delivered tax collected.	Included in tax calculation as taxable gallons.
5X	Gallons delivered and partially taxed.	Not included in tax calculation. Supports S04A dollar amount for blender credit.
6	Gallons delivered to motor fuel licensee – tax not collected.	Not included in tax calculation.
6B	Gallons sold tax-exempt, customer is a licensed blender.	Not included in tax calculation.
6F	Gallons sold for tax-exempt purposes from in-state terminals.	Not included in tax calculation.
6X	Gallons delivered to suppliers or permissive suppliers on exchange agreements.	Not included in tax calculation.
7	Gallons exported.	Included in tax calculation as gross gallons and exported gallons, not taxable gallons.
10E	Gallons delivered to customers representing uncollectible motor fuel taxes.	Not included in tax calculation. Supports S04A dollar amount for uncollectible taxes.
11A	Diversion to state of	Included in tax calculation as gross gallons and exported gallons, not taxable gallons.
11B	Diversion from state of .	Included in tax calculation as taxable gallons.
13K	Credit or Deduction for Reduced Tax Rate	Included in tax calculation as Gallon Deduction for Reduced Tax Rate Sales.
Schedule Code	Carrier / Transportation Schedules	Tax Calc Status
14A	Carrier deliveries in another state (export).	Not applicable.
14B	Carrier deliveries received from another state (import).	Not applicable.
14D	Carrier receipts.	Not applicable.
14E	Carrier deliveries.	Not applicable.
Schedule Code	IRS Gasoline Terminal / Storage Facility (Ethanol Plants, Biodiesel Plants) Schedules	Tax Calc Status
15A	IRS Gasoline Terminal or Storage Facility Receipts	Not applicable.
15B	IRS Gasoline Terminal or Storage Facility Disbursements	Not applicable.

Appendix C - Product Codes

Product

<u>Code</u>

Alcohol	123
Aviation Gasoline	125
Bio-Diesel Undyed	B00-B99
Bio-Diesel Dyed	
Blending Components*	122
Compressed Natural Gas	224
Diesel Fuel - dye added	228
High Sulfur Diesel Fuel - dye added	226
Low Sulfur Diesel Fuel - dye added	227
No. 1 Diesel - dye added	231
Diesel Fuel - undyed	160
Low Sulfur Diesel Fuel #1 - undyed	
Low Sulfur Diesel Fuel #2 - undyed	
No. 1 Fuel Oil - undyed	
#1 High Sulfur Diesel - undyed	282
#2 High Sulfur Diesel - undyed	
Ethanol	
Gasohol	124
Gasoline	065
E-75	
E-85	E85 or 079
Jet Fuel	130
Kerosene - undyed	142
Low Sulfur Kerosene - undyed	
High Sulfur Kerosene - undyed	
Kerosene - dye added	
Low Sulfur Kerosene - dye added	
High Sulfur Kerosene - dye added	
Liquid Natural Gas	
Methanol	
Natural Gasoline	061
Propane (Liquified Petroleum Gas)	
Residual Fuel Oil	
Soy Oil	
Undefined Products**	

* Gasohol blending components which do not have a specified product code.

** Products which do not have a specified product code. Also used for diesel blending components which do not have a specified product code.

Appendix D - Summary Codes / TIA Codes

Summary and TIA codes are used for the following purposes (See complete list of codes below.):

<u>813 Map</u>

- 1. Header TIA code 5000 defines the version/publication number of the taxing authority's EC Implementation Guide. TIA code 5001 (Total Net Reported) is a check value for determining if all information is included in the EDI file.
- 2. TOR Terminal Operator Report or SDR Supplier/Distributor Report TIA code 5002 (Physical Inventory) is used to report ending and/or beginning inventory.
- 3. SDR Supplier/Distributor Report TIA code 5003 (Total Due) is a check value used to acknowledge and validate tax liability or taxable gallons.
- 4. CCR Common Carrier Report TIA code 5004 (Total Net Transported) is a check value used to acknowledge and validate the report.
- 5. SUM Summary Code and TIA codes are used for identifying information not found in schedules or able to be derived from the schedules. The SUM loop provides a looping structure allowing multiple TIAs in a uniform format.
- 6. Schedules TIA 5005 (Net), 5006 (Gross) and 5007 (Billed) are used to report bill of lading volume details or further define summary detail.
- 7. Summary codes are defined and utilized for both quantity and money. The TIA segment of the summary has elements for both quantity and monetary values.

<u>820 Map</u>

No TIA or summary codes used.

<u>826 Map</u>

- 1. Header TIA code 5000 defines the version/publication number of the taxing authority's EC Implementation Guide. TIA code 5001 (Total Net Reported) is a check value for determining if all information is included in the EDI file.
- 2. Schedules TIA 5005 (Net), 5006 (Gross) and 5007 (Billed) are used to report bill of lading volume details or further define summary detail.

<u>151 Map</u>

No TIA or summary codes used.

Summary Codes/TIA combinations

Field Description	Summary Codes	TIA Code	Units
Taxes / Fees	S02	5005, 5008, 5009	Monetary
Tax Bad Debt Write-Off / Blender Credit	S04A	5005	Monetary

FTA Uniformity TIA Codes

The data	The data represented by these TIA codes is not derivable from schedules or represents a check value.		
5000	Not Used	Header	
5001	Total Net Reported	Header	
5002	Net Physical Inventory	TOR, SDR	
5003	Total Due	SDR	
5004	Total Net Transported	CCR	
5005	Net	SCH, SUM	
5006	Gross	SCH, SUM	
5007	Billed	SCH, SUM	
5008	Interest	SUM	
5009	Penalty	SUM	
5010	Confidential Information	Header, 826	
5011-	Not Used		
5199	1101 0 500		

Appendix E - Transaction Type Mode Codes

Transaction Type Mode Codes		
Code	Description	
J_	Truck	
R_	Rail	
B_	Barge	
S	Ship	
PL	Pipeline	
GS	Gas Station	
BA	Book Adjustment	
ST	Stationary Transfer	
CE	Summary Information	
RT	Removal from Terminal (other than by	
	truck or Rail) for sale or consumption	

The X.12 standard requires 2 characters in the field using this code. The "_" in the code table represents a space.

Appendix F - USA States, Canadian Provinces/Territories and Mexican State Abbreviations

		Canadian (CAN)	
USA (USA) State	Abbreviation	Province/Territory	Abbreviation
Alabama	AL	Alberta British Columbia	AB
Alaska	AK		BC
Arizona	AZ	Manitoba	MB
Arkansas	AR	New Brunswick	NB
California	CA	Newfoundland	NF
Colorado	CO	Northwest Territory	NT
Connecticut	CT	Nova Scotia	NS
Delaware	DE	Nunavut	NU
District of Columbia	DC	Ontario	ON
Florida	FL	Prince Edward Island	PE
Georgia	GA	Quebec	QC
Hawaii	HI	Saskatchewan	SK
Idaho	ID	Yukon Territory	YT
Illinois	IL		
Indiana	IN	Mexican (MEX) State	Abbreviation
Iowa	IA	Aguascalientes	AG
Kansas	KS	Baja California	BJ
Kentucky	KY	Baja California Sur	BS
Louisiana	LA	Campeche	СР
Maine	ME	Chiapas	СН
Maryland	MD	Chihuahua	CI
Massachusetts	MA	Coahuila	CU
Michigan	MI	Colima	CL
Minnesota	MN	Distrito Federal	DF
Mississippi	MS	Durango	DG
Missouri	MO	Guanajuato	GJ
Montana	MT	Guerrero	GR
Nebraska	NE	Hidalgo	HG
Nevada	NV	Jalisco	JA
New Hampshire	NH	Mexico	EM
New Jersey	NJ	Michoacan	MH
New Mexico	NM	Morelos	MR
New York	NY	Nayarit	NA
North Carolina	NC	Nuevo Leon	NL
North Dakota	ND	Oaxaca	OA
Ohio	OH	Puebla	PU
Oklahoma	OK	Queretaro	QA
Oregon	OR	Quintana Roo	QR
Pennsylvania	PA	San Luis Potosi	SL
Rhode Island	RI	Sinaloa	SI
South Carolina	SC	Sonora	SO
South Dakota	SD	Tabasco	TA
Tennessee	TN	Tamaulipas	TM
Texas	TX	Tlaxcala	TL
Utah	UT	Veracruz	VZ
Vermont	VT	Yucatan	YC
Virginia	VA	Zacatecas	ZT
Washington	WA		
West Virginia	WV		
Wisconsin	WI		
Wyoming	WY	1	

Appendix G - Terminal Codes

Terminal Codes

IRS Code	Terminal Name	City	State
T39IA3475	Sinclair Terminal	Montrose	IA
T42IA3450	BP Products North America Inc	Bettendorf	IA
T42IA3451	Flint Hills Resources, LP-Bettendorf	Bettendorf	IA
T42IA3452	Phillips Pipeline CoBettendorf	Bettendorf	IA
T42IA3454	BP Products North America Inc	Council Bluffs	IA
T42IA3455	National Coop Refinery	Council Bluffs	IA
T42IA3456	BP Products North America Inc	Des Moines	IA
T42IA3457	Magellan Pipeline Company, L.P.	Des Moines	IA
T42IA3458	BP Products North America Inc	Dubuque	IA
T42IA3460	Magellan Pipeline Company, L.P.	Dubuque	IA
T42IA3461	Magellan Pipeline Company, L.P.	Duncombe	IA
T42IA3463	Magellan Pipeline Company, L.P.	Coralville	IA
T42IA3464	Kaneb Pipe Line – Le Mars	Le Mars	IA
T42IA3465	Magellan Pipeline Company, L.P.	Clear Lake	IA
T42IA3466	Kaneb Pipe Line – Milford	Milford	IA
T42IA3467	Magellan Pipeline Company, L.P.	Milford	IA
T42IA3468	BP Products North America Inc	North Liberty	IA
T42IA3469	BP Products North America Inc	Ottumwa	IA
T42IA3470	Conoco Pipeline Co – Pleasant Hill	Pleasant Hill	IA
T42IA3471	CITGO – Bettendorf	Bettendorf	IA
T42IA3472	Kaneb Pipe Line – Rock Rapids	Rock Rapids	IA
T42IA3473	Magellan Pipeline Company, L.P.	Sioux City	IA
T42IA3474	Magellan Pipeline Company, L.P.	Waterloo	IA
T43MO3703	Ayers Oil Co	Caton	МО
T43MO3706	Sinclair Pipeline	Carrollton	МО
T43MO3710	Conoco K.S.	Parkville	MO
T43MO3711	Kerr McGee Ref	Lagrange	MO
T43MO3716	Williams Pipe Line	Palmyra	MO
T46SD3551	Kaneb Pipe Line Co	Mitchell	SD
T46SD3553	Amoco Oil	Sioux Falls	SD
T46SD3554	Williams Pipe Line	Sioux Falls	SD
T46SD3557	Kaneb Pipe Line Co	Yankton	SD
T47NE3603	Conoco Lincoln Products	Roca	NE
T47NE3605	Williams Pipe Line Lincoln	Roca	NE
T47NE3606	Kaneb Pipe Line	Norfolk	NE
T47NE3608	Williams Pipe Line	Omaha	NE
T41MN3402	Amoco Oil Spring Valley	Spring Valley	MN
T41MN3413	Williams Pipe Line	Mankato	MN
T41MN3416	Williams Pipe Line Rochester	Eyota	MN
T39WI3065	Cenex McFarland	McFarland	WI
T39WI3067	Citgo	McFarland	WI
T39WI3069	Terminal Oil Group LTD	Madison	WI

T39WI3072	Koch	McFarland	WI
T39WI3079	Mobil Oil Madison	McFarland	WI
T39WI3083	Kerr-McGee Ref	McFarland	WI
T39WI3085	Uno Ven	McFarland	WI
T39WI3088	US Oil Madison	Madison	WI
T36IL3303	Amoco Oil Rochelle	Rochelle	IL
T36IL3305	GATX Terminals Corp	Argo	IL
T36IL3308	Marathon Oil Rockford	Rockford	IL
T36IL3309	Marathon Oil Willow Springs	Willow Springs	IL
T36IL3312	Petroleum Fuel & Terminal Co	Forest View	IL
T36IL3314	ST Services Peru	Peru	IL
T36IL3315	Shell Oil Argo	Bedford Park	IL
T36IL3319	Williams Pipe Line Amboy	Amboy	IL
T36IL3350	Amoco Oil Peoria	Creve Coeur	IL
T36IL3355	Hicks Oils & Hicks Gas Inc	Creve Coeur	IL
T37IL3352	Clark Ref & Mtkth Peoria	Bartonville	IL

If the terminal code is not listed, see the complete list of all IRS Terminal Codes at <u>www.irs.gov/Businesses/Small-Businesses-&-Self-Employed/Terminal-Control-Number-TCN-Terminal-Locations-Directory</u>.

Appendix H - Error Response Codes

These codes are used to return a response to a taxing authority that has sent a 997 transaction set containing records in error.

Code	Description
00001	Record corrected.
00002	Record correct as originally submitted.
00003	Remove record, reported in error.
00004 99999	Available for future use.

Appendix I - Report Codes

Code	Description
TOR	Terminal Operator
SDR	Supplier/Distributor Report
CCR	Common Carrier Report
RET	Retailer Report

Appendix J - Sample EDI Files

Sample SDR Report – With Activity (Form 81-010, Iowa Fuel Tax Return)

Formatted with carriage returns for viewing. In an actual filing, carriage returns would be omitted.

ISA~00~ ~00~ ~32~123456789 ~32~421223822 ~050822~0931~|~00403~00000001~0~T~^\ GS~TF~123456789~421223822~20050822~0931~1101~X~004030 ST~813~10001~1\ BTI~T6~050~47~421223822~20050822~ABC*~24~516999988~49~704123456~SV~ZY0001~00 DTM~194~20050731\ TIA~5001~~~49000~GA N1~TP~ABC Oil Company\ N2~ABC Trucking~ABC Station\ N3~123 C Street~PO Box 222\ N4~Des Moines~IA~50317-2222~USA\ PER~CN~John Smith~TE~3139959989~FX~3139950330~EM~john.smith@abcoil.com PER~EA~John Doe~TE~3139959988~FX~3139950329~EM~john.doe@abcoil.com N1~31~ABC Oil Corp N2~ABC Trucking~ABC Station N3~123 D Street~PO Box 333\ N4~Des Moines~IA~50317-3333~USA\ TFS~T2~SDR\ Begin Supplier Report REF~55~1\ Sequence Number Total Due TIA~5003~4854.39\ $TFS \sim T3 \sim S02 \sim \sim 94 \sim CE \setminus$ Begin Summary Taxes/Fees Information REF~55~2\ Sequence Number FGS~S\ Summary Data $REF \sim 55 \sim 3$ Sequence Number TIA~5005~4915.76\ Tax Amount TIA~5008~0.81\ Interest Amount TIA~5009~162.03\ Penalty Amount $TFS \sim T3 \sim S04A \sim \sim 94 \sim CE \setminus$ Begin Summary Uncollectible Information REF~55~4\ Sequence Number FGS~S~∖ Summary Data REF~55~5\ Sequence Number Uncollectible Amount TIA~5005~224.21\ Begin Schedule of Receipts for Gasoline $TFS \sim T3 \sim 2 \sim PG \sim 065 \sim 94 \sim J \setminus I$ REF~55~6\ Sequence Number N1~OT~~TC~T42IA3457 $\$ Originating Terminal N1~SE~Fuel Seller Inc~24~419999999 Seller Information N1~CA~Fuel Carrier Inc~24~418888888 Carrier Information $N1 \sim ST \sim IA$ Ship To State N4~Des Moines~IA~50317-2222~USA\ Point of Destination FGS~D~BM~00123456\ Bill of Lading Number REF~55~7\ Sequence Number DTM~095~20050615\ Bill of Lading Date Bill of Lading Net TIA~5005~~~8005~GA\ TIA~5006~~~8000~GA\ Bill of Lading Gross TIA~5007~~~8000~GA Bill of Lading Billed $TFS \sim T3 \sim 2 \sim PG \sim 160 \sim 94 \sim J \setminus$ Begin Schedule of Receipts for Diesel $REF \sim 55 \sim 8 \$ Sequence Number N1~OT~~TC~T42IA3457\ Originating Terminal N1~SE~Fuel Seller Inc~24~419999999\ Seller Information N1~CA~Fuel Carrier Inc~24~418888888 Carrier Information Ship To State N1~ST~IA\

N4~Des Moines~IA~50317-2222~USA\ FGS~D~BM~00123457\ REF~55~9\ DTM~095~20050715\ TIA~5005~~~8005~GA\ TIA~5006~~~8000~GA TIA~5007~~~8000~GA $TFS \sim T3 \sim 2 \sim PG \sim 124 \sim 94 \sim J \setminus$ REF~55~10\ N1~OT~~TC~T42IA3457\ N1~SE~Fuel Seller Inc~24~419999999\ N1~CA~Fuel Carrier Inc~24~418888888 N1~ST~IA N4~Des Moines~IA~50317-2222~USA\ FGS~D~BM~00123458\ REF~55~11\ DTM~095~20050715\ TIA~5005~~~8005~GA\ TIA~5006~~~8000~GA\ TIA~5007~~~8000~GA TFS~T3~5~PG~065~94~J \ REF~55~12\ N1~SF~IA\ N4~Des Moines~IA~50317-2222~USA\ N1~CA~Fuel Carrier Inc~24~418888888 N1~BY~Fuel Purchaser Inc~24~417777777 N1~ST~IA\ N4~Des Moines~IA~50317-2222~USA\ FGS~D~BM~00223456\ REF~55~13\ DTM~095~20050615\ TIA~5005~~~8005~GA TIA~5006~~~8000~GA\ TIA~5007~~~8000~GA $TFS{\sim}T3{\sim}5{\sim}PG{\sim}160{\sim}94{\sim}J \ \backslash$ REF~55~14\ N1~SF~IA\ N4~Des Moines~IA~50317-2222~USA\ N1~CA~Fuel Carrier Inc~24~418888888 N1~BY~Fuel Purchaser Inc~24~417777777 N1~ST~IA\ N4~Des Moines~IA~50317-2222~USA\ FGS~D~BM~00223457\ REF~55~15\ DTM~095~20050715\ TIA~5005~~~8005~GA\ TIA~5006~~~8000~GA\ TIA~5007~~~8000~GA $TFS \sim T3 \sim 5 \sim PG \sim 124 \sim 94 \sim J \setminus$ REF~55~16\ N1~SF~IA\ N4~Des Moines~IA~50317-2222~USA\ N1~CA~Fuel Carrier Inc~24~418888888 N1~BY~Fuel Purchaser Inc~24~417777777 N1~ST~IA\ N4~Des Moines~IA~50317-2222~USA\ FGS~D~BM~00223458\ REF~55~17\ DTM~095~20050715\ TIA~5005~~~8005~GA\ TIA~5006~~~8000~GA\ TIA~5007~~~8000~GA

Point of Destination Bill of Lading Number Sequence Number Bill of Lading Date Bill of Lading Net **Bill of Lading Gross** Bill of Lading Billed Begin Schedule of Receipts for Gasohol Sequence Number Originating Terminal Seller Information Carrier Information Ship To State Point of Destination Bill of Lading Number Sequence Number Bill of Lading Date Bill of Lading Net Bill of Lading Gross Bill of Lading Billed Begin Schedule of Disbursements for Gasoline Sequence Number Ship From State Point of Origin Carrier Information Purchaser Information Ship To State Point of Destination Bill of Lading Number Sequence Number Bill of Lading Date Bill of Lading Net Bill of Lading Gross Bill of Lading Billed Begin Schedule of Disbursements for Diesel Sequence Number Ship From State Point of Origin Carrier Information Purchaser Information Ship To State Point of Destination Bill of Lading Number Sequence Number Bill of Lading Date Bill of Lading Net Bill of Lading Gross Bill of Lading Billed Begin Schedule of Disbursements for Gasohol Sequence Number Ship From State Point of Origin Carrier Information Purchaser Information Ship To State Point of Destination Bill of Lading Number Sequence Number Bill of Lading Date Bill of Lading Net Bill of Lading Gross Bill of Lading Billed

- $TFS{\sim}T3{\sim}10E{\sim}PG{\sim}160{\sim}94{\sim}J\,\backslash$ REF~55~18\ $N1 \sim SF \sim IA$ N4~Des Moines~IA~50317-2222~USA\ N1~CA~Fuel Carrier Inc~24~418888888 N1~BY~Fuel Purchaser Inc~24~417777777 $N1 \sim ST \sim IA$ N4~Des Moines~IA~50317-2222~USA\ $FGS{\sim}D{\sim}BM{\sim}00323456 \setminus$ $REF{\sim}55{\sim}19 \setminus$ $DTM {\sim} 095 {\sim} 20050515 \backslash$ TIA~5005~~~1005~GA\ TIA~5006~~~1000~GA\ TIA~5007~~~1000~GA\ SE~125~10001\ GE~1~1101\ $IEA \sim 1 \sim 00000001 \$
- Begin Schedule of Disbursements for UncollectibleSequence NumberShip From StatePoint of OriginCarrier InformationPurchaser InformationShip To StatePoint of DestinationBill of Lading NumberSequence NumberBill of Lading DateBill of Lading NetBill of Lading GrossBill of Lading Billed

Sample SDR Report – No Activity (Form 81-010, Iowa Fuel Tax Return)

Formatted with carriage returns for viewing. In an actual filing, carriage returns would be omitted.

ISA~00~ ~00~ ~32~123456789 ~32~421223822 ~050822~0931~|~00403~00000002~0~T~^\ $GS{\sim}TF{\sim}123456789{\sim}421223822{\sim}20050822{\sim}0931{\sim}1102{\sim}X{\sim}004030{\setminus}004030{\times}0040{\times}004{\times}0040{$ ST~813~10002~1\ BTI~T6~050~47~421223822~20050822~ABC*~24~516999988~49~704123456~SV~ZY0001~00\ DTM~194~20050731\ TIA~5001~~~0~GA\ N1~TP~ABC Oil Company\ N2~ABC Trucking~ABC Station\ N3~123 C Street~PO Box 222\ N4~Des Moines~IA~50317-2222~USA\ PER~CN~John Smith~TE~3139959989~FX~3139950330~EM~john.smith@abcoil.com PER~EA~John Doe~TE~3139959988~FX~3139950329~EM~john.doe@abcoil.com N1~31~ABC Oil Corp\ N2~ABC Trucking~ABC Station\ N3~123 D Street~PO Box 333\ N4~Des Moines~IA~50317-3333~USA\ TFS~T2~SDR\ Begin Supplier Report REF~55~1\ Sequence Number REF~BE~1 No Activity SE~18~10002\ GE~1~1102\ IEA~1~00000002\

Sample TOR Report (Form 83-010, Iowa Terminal Report)

Formatted with carriage returns for viewing. In an actual filing, carriage returns would be omitted.

ISA~00~ ~00~ ~32~123456789 ~32~421223822 ~050822~0931~|~00403~00000003~0~T~^\ GS~TF~123456789~421223822~20050822~0931~1103~X~004030 ST~813~10003~1\ BTI~T6~050~47~421223822~20050822~ABC*~24~516999988~49~704123456~SV~ZY0001~00\ DTM~194~20050731\ TIA~5001~~~48000~GA N1~TP~ABC Fuel Terminal\ N3~123 C Street~PO Box 222\ N4~Des Moines~IA~50317-2222~USA\ PER~CN~John Smith~TE~3139959989~FX~3139950330~EM~john.smith@abcoil.com PER~EA~John Doe~TE~3139959988~FX~3139950329~EM~john.doe@abcoil.com TFS~T2~TOR~~~TC~T42IA1234 Begin Terminal Report REF~55~1\ Sequence Number Ending Inventory Date DTM~184~20050731\ FGS~GL~PG~065\ Gain/Loss for Gasoline REF~55~2\ Sequence Number TIA~5002~~~-500~GA Loss Amount FGS~EI~PG~065\ Ending Inventory for Gasoline REF~55~3\ Sequence Number TIA~5002~~~21500~GA Inventory Amount TFS~T3~15A~PG~065~94~PL\ Begin Schedule of Receipts for Gasoline REF~55~4\ Sequence Number Point of Origin N1~OT~~TC~T42IA7654\ Position Holder Information N1~ON~Fuel Position Holder Inc~24~416666666 N1~CA~Fuel Carrier Inc~24~418888888 Carrier Information N1~DT~~TC~T42IA1234\ Point of Destination FGS~D~BM~00123456\ Bill of Lading Sequence Number REF~55~5\ DTM~095~20050711\ Bill of Lading Date Bill of Lading Net TIA~5005~~~8005~GA\ Bill of Lading Gross TIA~5006~~~8000~GA\ TIA~5007~~~8000~GA Bill of Lading Billed FGS~D~BM~00123457\ Bill of Lading Sequence Number REF~55~6\ DTM~095~20050721\ Bill of Lading Date Bill of Lading Net TIA~5005~~~8005~GA\ Bill of Lading Gross TIA~5006~~~8000~GA\ TIA~5007~~~8000~GA Bill of Lading Billed FGS~D~BM~00123458\ Bill of Lading Sequence Number REF~55~7\ DTM~095~20050731\ Bill of Lading Date TIA~5005~~~8005~GA\ Bill of Lading Net TIA~5006~~~8000~GA **Bill of Lading Gross** TIA~5007~~~8000~GA Bill of Lading Billed $TFS \sim T3 \sim 15B \sim PG \sim 065 \sim 94 \sim PL \setminus$ Begin Schedule of Disbursements for Gasoline REF~55~8\ Sequence Number N1~OT~~TC~T42IA1234 Point of Origin Position Holder Information N1~ON~Fuel Position Holder Inc~24~416666666 N1~CA~Fuel Carrier Inc~24~418888888 **Carrier** Information N1~BY~Fuel Buyer Inc~24~417777777 **Buyer Information** N1~ST~IA\ Point of Destination FGS~D~BM~00223456\ Bill of Lading Sequence Number REF~55~9\

DTM~095~20050711\ TIA~5005~~~8005~GA\ TIA~5006~~~8000~GA\ TIA~5007~~~8000~GA\ FGS~D~BM~00223457REF~55~10\ DTM~095~20050721\ TIA~5005~~~8005~GA\ TIA~5006~~~8000~GA\ TIA~5007~~~8000~GA $FGS{\sim}D{\sim}BM{\sim}00223458 \setminus$ REF~55~11\ $DTM{\sim}095{\sim}20050731 \backslash$ TIA~5005~~~8005~GA\ TIA~5006~~~8000~GA\ TIA~5007~~~8000~GA\ SE~68~10003\ $GE\sim1\sim1103$ IEA~1~00000003\

|Bill of Lading Date|Bill of Lading Net|Bill of Lading Gross|Bill of Lading Billed|Bill of Lading|Sequence Number|Bill of Lading Date|Bill of Lading Net|Bill of Lading Gross|Bill of Lading Billed|Bill of Lading|Sequence Number|Bill of Lading Billed|Bill of Lading Billed|Bill of Lading Date|Bill of Lading Date|Bill of Lading Net|Bill of Lading Net|Bill of Lading Net|Bill of Lading Gross|Bill of Lading Gross|Bill of Lading Billed