



Department
of
Defense

DoD
Transportation
Electronic
Business (DTEB)
Convention

ASC X12 Transaction Set 404
Rail Carrier Shipment
Information (Version 005030)

FINAL DRAFT

September 2010



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Section 1.0

INTRODUCTION

This implementation convention (IC) describes the standard or convention the Department of Defense will use to exchange Rail Carrier Shipment Information in support of the Defense Transportation Electronic Business (DTEB) program. [The copyright on the ASC X12 standards is held by the Data Interchange Standards Association on behalf of ASC X12.](#)

For further information about the DTEB program, contact the following:

United States Transportation Command
TCJ4-LP
508 Scott Drive
Scott Air Force Base, IL 62225-7001

To obtain DoD conventions or ASC X12 guidance or to recommend DoD conventions or ASC X12 maintenance, contact the following:

Defense Logistics Management Standards Office
Attn: DLMSO
8725 John J. Kingman Road
Ft. Belvoir VA 22060-6217

For the most recent publication, go to the World-Wide Web at
[https://dteb.lmi.org/dod/dteb.nsf/\(DocLevel2\)?OpenView&cat1=IC&cat2=5030](https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=5030)

[Instructions: At the web location, sign on as 'Guest'. Select the desired Implementation Convention document. That document is available in PDF format and may be downloaded or printed.]

Who Needs to Use This Document?

Computer programmers use this document to identify the data requirements for populating an EDI transaction.

Why Use a Convention?

A convention defines the rules for populating an EDI transaction. Following a convention ensures that trading partners will encounter fewer data quality problems during development and maintenance of EDI systems.

Contents

Additional sections are included in this document.

- Section 2.0, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments that envelop all EDI transactions.
- Section 3.0, Standard Implementation Convention, lists the layout of the target transaction set by segment and data element. Identified along side each transaction set data element is the IC Element Matrix index number from Section 4.0.
- Section 4.0, IC Element Matrix, identifies the application data elements trading partners need to exchange. This section can be used to map an existing application database into the transaction set.
- Section 5.0 , when present, contains an example of the EDI transactions.
- Section 6.0, Application Code Lists, when present, identifies the DoD codes that trading partners need to exchange. This section augments the matrix presented in Section 4.0.
- Other Sections contain examples of hard copy documents, examples of EDI transaction sets, segment looping logic tables, and other items that serve as references for software developers.

Section 2.0

CONTROL SEGMENTS

Overview

This section describes the EDI control segments (interchange control and functional group segments). The control segment information was derived from the ASC X12 Standards Version 5 Release 3 (005030).

Purpose

This section identifies the specific data requirements for formatting the EDI control segments when transmitting and receiving EDI transactions. The format and data content of the control segments are usually managed by EDI translation software. The data requirements described herein should be used to set control segment formats when installing or initializing translation software for transmission and reception of EDI transactions.

Contents

The complete 005030 version/release control segments includes an Interchange Control Segment Hierarchy on page 2.3, which identifies the control segments in their order of occurrence in an EDI communications interchange.

Beginning on page 2.5 are Department of Defense (DoD) Convention ASC X12 Control Segments, which present a detailed description of DoD data conventions for formatting Interchange Control and Functional Group segments for use among Defense Transportation Electronic Business (DTEB) trading partners.

Special Instructions

Any unique eight-bit (byte) character may serve as data element separator, segment terminator, or component element separator, provided each character is disjoint from all data elements within an interchange and that these values do not conflict with telecommunications protocols necessary to the transmission of the interchange. The following recommended values conform to information published in Electronic Data Interchange, X12 Standards, Interchange Control Structures, Section 4.3, Delimiter Specifications.

DATA ELEMENT SEPARATOR

While the data element separator is graphically displayed as an asterisk (*) or a tilde (~) in *ASC X12* documentation, it is the value employed in the fourth byte of an interchange envelope that actually assigns the separator that the translators will use throughout an interchange. Any unique eight-bit (byte) character may serve as data element separator, segment terminator, or component element separator, provided each character is disjoint from all data elements within an interchange and that these do not conflict with telecommunications protocols necessary to the transmission of the interchange.

ASC X12 recommends the ASCII character with hexadecimal value "1D" for use as the data element separator (gs). These values conform to information published in *Electronic Data Interchange, X12 Standards, Interchange Control Structures, Section 4.3, Delimiter Specifications*.

SEGMENT TERMINATOR

Likewise, the control envelope establishes the byte value used for segment termination within an interchange. *ASC X12* documentation usually portrays this as a new line (n/l character, but the actual segment terminator for an interchange will be the byte value occurring immediately following the ISA16 segment. *ASC X12* recommends the ASCII character with hexadecimal value "1C" for use as the segment (fs) terminator.

COMPONENT ELEMENT SEPARATOR

The ISA segment provides a discrete element (ISA16) for defining the component element separator within an interchange. The component element separator is a delimiter used to separate component data elements within a composite data structure. It must be different than the data element separator and the segment terminator. *ASC X12* recommends the ASCII character with hexadecimal value "1F" for use as the component element separation (us) character.

GS01 CODE VALUE

Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 858, the correct code value for GS01 is 'SI' denoting Shipment Information (858).

X12 PUBLICATION

See *ASC X12 Electronic Data Interchange X12 Draft Version 5 Release 3 Standards for complete 005030 version/release control segment specifications*.

Interchange Control Envelope Control Segments

Usage	Seg ID	Name	Req Des	Max Use
Must Use	ISA	Interchange Control Header	M	1
Must Use	GS	Functional Group Header	M	1
Must Use	● ST - SE	Grouped Transactions		
Must Use	● ST - SE	Grouped Transactions		
Must Use	● ST - SE	Grouped Transactions		
Must Use	GE	Functional Group Trailer	M	1
Must Use	GS	Functional Group Header	M	1
Must Use	● ST - SE	Grouped Transactions		
Must Use	● ST - SE	Grouped Transactions		
Must Use	● ST - SE	Grouped Transactions		
Must Use	GE	Functional Group Trailer	M	1
Must Use	IEA	Interchange Control Trailer	M	1

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M	ISA05	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Select appropriate code value for sender from 5030 X12 code list for data element I05. For Department of Defense Agency Address Code (DoDAAC) use code value '10'.	M ID 2/2
M	ISA06	I06	Interchange Sender ID Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element. DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code qualified by ISA05 and coordinated with network value added network (VAN) Administrator.	M AN 15/15
M	ISA07	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Select appropriate code value for receiver from 5030 X12 code list for data element I05. For DoDAAC use code value '10'.	M ID 2/2
M	ISA08	I07	Interchange Receiver ID Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them. DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code qualified by ISA05 and coordinated with VAN Administrator.	M AN 15/15

M	ISA09	I08	Interchange Date Date of the interchange	M DT 6/6
			<u>Date in YYMMDD format assigned by translation software</u>	
M	ISA10	I09	Interchange Time Time of the interchange	M DT 4/4
			<u>Time in HHMM format assigned by translation software</u>	
M	ISA11	I10	Interchange Control Standards Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	M ID 1/1
			<u>Code</u>	<u>Definition</u>
			U	U.S. EDI Community of ASC X12, TDCC, and UCS
M	ISA12	I11	Interchange Control Version Number This version number covers the interchange Control segments.	M ID 5/5
			<u>Code</u>	<u>Definition</u>
			00503	Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 2005
			<u>Version/release of control segment, as agreed upon by the trading partners</u>	
M	ISA13	I12	Interchange Control Number A control number assigned by the interchange sender	M N0 9/9
			<u>Number assigned by translation software. The sender, receiver, and all third parties should be able to maintain an audit trail of interchanges using this number.</u>	
M	ISA14	I13	Acknowledgment Requested Code sent by the sender to request an interchange acknowledgment (TA1)	M ID 1/1
			<u>Code</u>	<u>Definition</u>
			0	No Acknowledgment Requested
			1	Interchange Acknowledgment Requested
			<u>Send code agreed upon by trading partners.</u>	

M ISA15 I14

Usage Indicator

M ID 1/1

Code to indicate whether data enclosed by this interchange envelope is test, production, or information

<u>Code</u>	<u>Definition</u>
I	Information
P	Production Data
T	Test Data

Use code value as agreed upon by trading partners.

M ISA16 I15

Component Element Separator

AN 1/1

Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator.

ASC X12 recommends the use of ASCII character whose hexagonal value is '1F' as the component element separation character

Segment: **GS Functional Group Header**

Usage: **Mandatory**

Max Use: **1**

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

DATA ELEMENT SUMMARY

Ref Des	Data Element	Name	Attributes
M GS01	479	Functional Identifier Code Code identifying a group of application related transaction sets	M ID 2/2
<p>Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 858, the correct code value for GS01 is 'SI' denoting Shipment Information (858).</p>			
M GS02	142	Application Sender's Code Code identifying party sending transmission; codes agreed to by trading partners	M AN 2/15
<p>Typically, a sender will use different codes here to uniquely identify each implementation convention (IC) for a particular transaction set. DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA06.</p>			
M GS03	124	Application Receiver's Code Code to identify the type of information in the Security Information	M AN 2/15
<p>DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA08</p>			

M	GS04	373	<p>Date M DT 8/8 Date expressed as CCYYMMDD. Information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)</p> <p style="background-color: #e0e0e0;">Date assigned by translation software</p>				
M	GS05	337	<p>Time M TM 4/8 Time expressed in 24-hour clock time as follows: HHMM or HHMMSS, or HHMMSSD, or HHMMSSDD, where H – hours (00-23), M = minutes (00-59), S = integer seconds (00-59), and D = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)</p> <p style="background-color: #e0e0e0;">Time expressed in HHMM format assigned by translation software</p>				
M	GS06	28	<p>Group Control Number M N0 1/9 Assigned number originated and maintained by the sender</p> <p style="background-color: #e0e0e0;">Number assigned by translation software. The sender, receiver, and all third parties should be able to maintain an audit trail of interchanges using this number.</p>				
M	GS07	455	<p>Responsible Agency Code M ID 1/1 Code used in conjunction with Data Element 480 to identify the issuer of the standard.</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black; padding: 5px;"><u>Code</u></th> <th style="text-align: left; border-bottom: 1px solid black; padding: 5px;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">X</td> <td style="padding: 5px;">Accredited Standards Committee X12</td> </tr> </tbody> </table>	<u>Code</u>	<u>Definition</u>	X	Accredited Standards Committee X12
<u>Code</u>	<u>Definition</u>						
X	Accredited Standards Committee X12						
M	GS08	480	<p>Version / Release / Industry Identified Code M AN 6/6 Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by the user), if code in DE455 in GS segment is T, then other formats are allowed.</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black; padding: 5px;"><u>Code</u></th> <th style="text-align: left; border-bottom: 1px solid black; padding: 5px;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">005030</td> <td style="padding: 5px;">Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 2005</td> </tr> </tbody> </table> <p style="background-color: #e0e0e0;">This is the version/release for all transactions within a functional group. See X12 5030 Dictionary for source code list. Note: optional positions 7- 12 are not used by the DTEB community.</p>	<u>Code</u>	<u>Definition</u>	005030	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 2005
<u>Code</u>	<u>Definition</u>						
005030	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 2005						

Segment: GE Functional Group Trailer
 Usage: Mandatory
 Max Use: 1
 Purpose: To indicate the end of a functional group and to provide control information

DATA ELEMENT SUMMARY

Ref Des	Data Element	Name	Attributes
M	GE01	97	<p>Number of Transaction Sets Included M N0 1/6</p> <p>Total number of segments included in a transaction set including ST and SE segments</p> <p>Number assigned by translation software</p>
M	GE02	28	<p>Group Control Number M N0 1/9</p> <p>Assigned number originated and maintained by the sender</p> <p>Number assigned by the translation software. This control number matches the control number that occurs in GS06.</p>

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Segment: IEA Interchange Control Trailer
Usage: Mandatory
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange related control segments

DATA ELEMENT SUMMARY

	Ref Des	Data Element	Name	Attributes
M	IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in an interchange Number calculated by translation software	M N0 1/6
M	IEA02	I12	Interchange Control Number A control number assigned by the interchange sender Number assigned by translation software. This number must match that occurring in ISA13.	M N0 9/9

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Section 3.0

STANDARD IMPLEMENTATION CONVENTION

This section presents the DoD's convention for generating bills of lading using ASC X12 Transaction Set 404 Rail Carrier Shipment Information (Version 005030).

Symbols that appear in the Data Element Summary to the left of each segment reference designator (Ref. Des.) define implementation convention usage for the DoD. These designations may differ from X12 convention attributes appearing in the right-hand column of the Data Element Summary and should be interpreted as follows:

- [*blank*] - Segment or data element may be used optionally
- M - X12 standards designate mandatory use of segment or data element
- >> - Segment or data element is mandatory for DTEB use
- X - Segment or data element is not used.

NOTE: Whenever a segment occurs more than once, DoD's actual usage requirement may differ among the instances of segment usage. In all cases, the Data Element Summary will indicate the highest order DoD requirement. In other words, if one or several particular instances for a segment are OPTIONAL but another is MANDATORY, the Data Element Summary will indicate a MANDATORY requirement. A review of the IC layout in Section 4.0 will distinguish among the multiple instances and clarify the usage requirement for each instance.

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404 Rail Carrier Shipment Information

Functional Group ID=**SR**

Introduction:

This X12 Transaction Set contains the format and establishes the data contents of the Rail Carrier Shipment Information Transaction Set (404) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to transmit rail-carrier-specific bill of lading information to a railroad. It is the initial tender of a shipment between a consignor and a rail carrier and can be used as notification of equipment release and/or a legal bill of lading.

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		
Not Used	0200	ZC1	Beginning Segment for Data Correction or Change	O	1		
Must Use	0300	BX	General Shipment Information	O	1		n1
	0400	BNX	Rail Shipment Information	O	1		
M	0500	M3	Release	M	1		
M	0600	N9	Extended Reference Information	M	30		
Not Used	0700	CM	Cargo Manifest	O	2		
Not Used	0800	M1	Insurance	O	1		
Must Use	0900	DTM	Date/Time Reference	O	5		
LOOP ID - N7						500	
M	1000	N7	Equipment Details	M	1		
Not Used	1010	EM	Equipment Characteristics	O	1		
LOOP ID - VC						36	
Not Used	1100	VC	Motor Vehicle Control	O	1		
LOOP ID - N1						2	
Not Used	1120	N1	Party Identification	O	1		
Not Used	1140	N3	Party Location	O	2		
Not Used	1160	N4	Geographic Location	O	1		
Not Used	1180	H3	Special Handling Instructions	O	1		
	1300	M7	Seal Numbers	O	5		
Not Used	1400	N5	Equipment Ordered	O	1		
Not Used	1500	IC	Intermodal Chassis Equipment	O	1		
Not Used	1600	IM	Intermodal Movement Information	O	1		
Not Used	1700	M12	In-bond Identifying Information	O	2		
LOOP ID - E1						2	
Not Used	1710	E1	Empty Car Disposition - Pended Destination Consignee	O	1		
Not Used	1720	E4	Empty Car Disposition - Pended Destination City	O	1		
Not Used	1730	E5	Empty Car Disposition - Pended Destination Route	O	13		
Not Used	1740	PI	Price Authority Identification	O	1		

Not Used	1750	GA	Canadian Grain Information	O	15
			LOOP ID - REF	99	
	1770	REF	Reference Information	O	1
Not Used	1775	N9	Extended Reference Information	O	10
	1780	N10	Quantity and Description	O	15
			LOOP ID - N1	5	
Not Used	1790	N1	Party Identification	O	1
Not Used	1800	N3	Party Location	O	1
Not Used	1820	N4	Geographic Location	O	1
	1850	NA	Cross-Reference Equipment	O	10
M	1900	F9	Origin Station	M	1
M	2000	D9	Destination Station	M	1
			LOOP ID - N1	15	
M	2100	N1	Party Identification	M	1
Not Used	2150	N2	Additional Name Information	O	2
	2200	N3	Party Location	O	2
Must Use	2300	N4	Geographic Location	O	1
Not Used	2350	REF	Reference Information	O	2
	2400	PER	Administrative Communications Contact	O	2
Not Used	2520	BL	Billing Information	O	12
			LOOP ID - S1	12	
Not Used	4300	S1	Stop-off Name	O	1
Not Used	4400	S2	Stop-off Address	O	2
Not Used	4480	S9	Stop-off Station	O	1
Not Used	4490	N1	Party Identification	O	1
Not Used	4500	N2	Additional Name Information	O	1
Not Used	4510	N3	Party Location	O	1
Not Used	4520	N4	Geographic Location	O	1
Not Used	4530	PER	Administrative Communications Contact	O	1
M	4600	R2	Route Information	M	13
Not Used	4800	R9	Route Code Identification	O	1
			LOOP ID - E1	2	
Not Used	4900	E1	Empty Car Disposition - Pended Destination Consignee	O	1
Not Used	5000	E4	Empty Car Disposition - Pended Destination City	O	1
Not Used	5100	E5	Empty Car Disposition - Pended Destination Route	O	13
Not Used	5110	PI	Price Authority Identification	O	1
	5200	H3	Special Handling Instructions	O	20
	5300	PS	Protective Service Instructions	O	5
			LOOP ID - LX	25	
M	5400	LX	Transaction Set Line Number	M	1
M	5500	L5	Description, Marks and Numbers	M	15
			LOOP ID - L0	25	
Must Use	5700	L0	Line Item - Quantity and Weight	O	1

Not Used	5750	MEA	Measurements	O	3	
Not Used	5800	L1	Rate and Charges	O	10	
					LOOP ID - PI	30
Must Use	5900	PI	Price Authority Identification	O	1	
Not Used	5920	CD	Shipment Conditions	O	10	
Not Used	6000	X1	Export License	O	6	
					LOOP ID - T 1	64
Not Used	6100	T1	Transit Inbound Origin	O	1	
Not Used	6200	T2	Transit Inbound Lading	O	30	
Not Used	6300	T3	Transit Inbound Route	O	12	
Not Used	6400	T6	Transit Inbound Rates	O	1	
Not Used	6500	T8	Free-form Transit Data	O	99	
Not Used	6600	L3	Total Weight and Charges	O	1	
	6700	LS	Loop Header	O	1	
					LOOP ID - LH1	1000
	6800	LH1	Hazardous Identification Information	O	1	
	6900	LH2	Hazardous Classification Information	O	4	n2
	7000	LH3	Hazardous Material Shipping Name Information	O	10	
	7100	LFH	Free-form Hazardous Material Information	O	20	
Not Used	7200	LEP	EPA Required Data	O	3	
	7300	LH4	Canadian Dangerous Requirements	O	4	
	7400	LHT	Transborder Hazardous Requirements	O	3	
	7500	LHR	Hazardous Material Identifying Reference Numbers	O	5	
	7550	PER	Administrative Communications Contact	O	5	
					LOOP ID - N1	10
Not Used	7560	N1	Party Identification	O	1	
Not Used	7570	N3	Party Location	O	2	
Not Used	7580	N4	Geographic Location	O	1	
Not Used	7590	PER	Administrative Communications Contact	O	2	
	7600	LE	Loop Trailer	O	1	
	7700	PER	Administrative Communications Contact	O	5	
Not Used	7800	LH2	Hazardous Classification Information	O	6	n3
Not Used	7900	LHR	Hazardous Material Identifying Reference Numbers	O	1	
	8000	LH6	Hazardous Certification	O	5	
Not Used	8100	XH	Pro Forma - B13 Information	O	1	
Not Used	8200	X7	Customs Information	O	10	
M	8400	SE	Transaction Set Trailer	M	1	

Transaction Set Notes

1. BX05 contains the Standard Carrier Alpha Code (SCAC) of the original roadhaul carrier receiving the shipment.
2. If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory. However, the receiver must consider it to be blanks when printing a paper document.

3. If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory. However, the receiver must consider it to be blanks when printing a paper document.

Segment: **ST** Transaction Set Header
Position: 0100
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: [1] ST SEGMENT - Rail Carrier Information Header

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set [1-01] Transaction Set Identifier Code	M 1 ID 3/3
		404	Rail Carrier Shipment Information [1-01] Rail Carrier Shipment Information	
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set [1-02] Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)	M 1 AN 4/9

Segment: **BX** **General Shipment Information**

Position: 0300

Loop:

Level:

Usage: Optional (Must Use)

Max Use: 1

Purpose: To transmit identification numbers and other basic shipment data

Syntax Notes:

Semantic Notes:

Comments:

Notes: [2] BX SEGMENT - General Shipment Information

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BX01	353	Transaction Set Purpose Code Code identifying purpose of transaction set [2-01] Transaction Set Purpose Code Rails cannot accept code value '04' indicating 'Change' after lift.	M 1 ID 2/2
M	BX02	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment [2-02] Transportation Method/Type Code Use code value 'X' when Primary Equipment Description Code, N711, position 100, contains code value 'CN' or code value 'TL'.	M 1 ID 1/2
M	BX03	146	Shipment Method of Payment Code identifying payment terms for transportation charges [2-03] Shipment Method of Payment	M 1 ID 2/2
>>	BX05	140	Standard Carrier Alpha Code Standard Carrier Alpha Code [2-05] Standard Carrier Alpha Code Use SCAC of origin carrier. SCAC should be validated against the National Motor Freight Transportation Association (NMFTA) SCAC reference file.	O 1 ID 2/4
>>	BX06	188	Weight Unit Code Code specifying the weight unit [2-06] Weight Unit Code This element qualifies all weights in the transaction set.	O 1 ID 1/1
>>	BX07	147	Shipment Qualifier Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time [2-07] Shipment Qualifier	O 1 ID 1/1
	BX11	501	Customs Documentation Handling Code Code defining method of handling for documentation [2-08] Customs Documentation Handling Code	O 1 ID 2/2

Required for all shipments to/from Canada.

BX13	714	Goods and Services Tax Reason Code	O 1 ID 1/1
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Code required to identify the reason for a 0% rated goods and services tax [2-013] Goods and Services Tax Reason Code
Required for all shipments to/from Canada. Use code value '1' for inbound shipments and code value '2' for outbound shipments.

Segment: **BNX** Rail Shipment Information
Position: 0400
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To transmit rail-specific shipment data
Syntax Notes:
Semantic Notes:
Comments:

Notes: [3] BNX SEGMENT - Rail Shipment Information
 SEGMENT CONDITION: BNX segment is mandatory for loaded revenue shipments.

Data Element Summary

Ref.	Data				<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Name</u>			
>>	BNX01	460	Shipment Weight Code		O 1 ID 1/1
			Code indicating the way by which weights are obtained for a particular shipment		
			[3-01] Shipment Weight Code		
>>	BNX03	11	Billing Code		O 1 ID 1/1
			Code indicating type of Bill		
			[3-03] Billing Code		

Segment: **M3** Release
Position: 0500
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate that the equipment is or is not to be released
Syntax Notes:

- 1 At least one of M302 or M303 is required.
- 2 If M304 is present, then M303 is required.

Semantic Notes:

- 1 If M301 contains code value "S" or "R", then M302 is the date of release. If M301 contains code value "U", then M302 is the estimated date of release.
- 2 M304 reflects the time zone which the time reflects.

Comments:
Notes: [4] M3 SEGMENT - Date/Time of 404 Creation and Release Code
Use this segment to indicate whether the equipment is or is not to be released.

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>ID</u>
M	M301	132 Release Code	M 1 ID 1/1
		Code signifying whether or not the shipment information transaction set includes instructions for pickup and movement of the shipment; (This code provides a means for the shipper to transmit billing data along with the movement instructions, transmit billing data ahead of the movement instructions, or follow movement instructions with complete billing data at a later date)	
		[4-01] Release Code	
>>	M302	373 Date	X 1 DT 8/8
		Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	
		[4-02] Date 404 Prepared This is the date that the 404 transaction is generated.	
>>	M303	337 Time	X 1 TM 4/8
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
		[4-03] Time 404 Prepared This is the time that the 404 transaction is generated.	
>>	M304	623 Time Code	O 1 ID 2/2
		Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	

[4-04] Time Code

Segment: **N9** Extended Reference Information
Position: 0600
Loop:
Level:
Usage: Mandatory
Max Use: 30
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:

Notes: [5] N9 SEGMENT - Bill of Lading Prepared Date
Data from GS202, position 110, 'Date Bill of Lading/Shipping Instruction Prepared Date' of 858R IC.

Data Element Summary

	Ref. Des.	Data		Attributes	
		Element	Name		
M	N901	128	Reference Identification Qualifier	M	1 ID 2/3
			Code qualifying the Reference Identification		
			[5-01] B/L Qualifier		
>>	N902	127	Reference Identification	X	1 AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			[5-02] Bill of Lading Number		
			Enter bill of lading number here.		
X	N903	369	Free-form Description	X	1 AN 1/45
			Free-form descriptive text		
>>	N904	373	Date	O	1 DT 8/8
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year		
			[5-04] Bill of Lading Prepared Date		
			This is the date the shipper creates the bill of lading.		
>>	N905	337	Time	X	1 TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
			[5-05] Time		
			This is the time that the 404 transaction is generated.		

>>	N906	623	Time Code	O	1	ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow			
			[5-06] Time Code			
X	N907	C040	Reference Identifier	O	1	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier			
X	C04001	128	Reference Identification Qualifier	M		ID 2/3
			Code qualifying the Reference Identification Refer to 005030 Data Element Dictionary for acceptable code values.			
X	C04002	127	Reference Identification	M		AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
X	C04003	128	Reference Identification Qualifier	X		ID 2/3
			Code qualifying the Reference Identification Refer to 005030 Data Element Dictionary for acceptable code values.			
X	C04004	127	Reference Identification	X		AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
X	C04005	128	Reference Identification Qualifier	X		ID 2/3
			Code qualifying the Reference Identification Refer to 005030 Data Element Dictionary for acceptable code values.			
X	C04006	127	Reference Identification	X		AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			

Segment: **DTM** Date/Time Reference

Position: 0900

Loop:

Level:

Usage: Optional (Must Use)

Max Use: 5

Purpose: To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes: [6] DTM SEGMENT - Desired/Required Delivery
[7] DTM SEGMENT - Carrier's Pickup
SEGMENT CONDITION: Use when date rail carriers are to pick up rail cars applies.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	DTM01	374	Date/Time Qualifier	M 1 ID 3/3
			Code specifying type of date or time, or both date and time	
			[6-01] Desired/Required Delivery Date Qualifier Use code value '017' to denote Deliver on this Date. Use code value '002' to denote Required Delivery Date.	
			[7-01] Carrier's Pickup Date Qualifier SDDC will accept only code value '86' from shippers.	
			Convert code value '86' from 858R IC, G6201 segment, position 110, to code value '196' to denote Actual Pickup Date.	
>>	DTM02	373	Date	X 1 DT 8/8
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	
			[6-02] Desired/Required Delivery Date [7-02] Carrier's Pickup Date This is the date rail carriers are to pick up rail cars. Note: The release date is the estimated pickup date and not the date the 404 was generated.	
X	DTM03	337	Time	X 1 TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
X	DTM04	623	Time Code	O 1 ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an	

indication in hours in relation to Universal Time Coordinate (UTC) time;
since + is a restricted character, + and - are substituted by P and M in the
codes that follow

Refer to 005030 Data Element Dictionary for acceptable code values.

Segment: **N7** Equipment Details
Position: 1000
Loop: N7 Mandatory
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify the equipment
Syntax Notes:

- 1 If either N703 or N704 is present, then the other is required.
- 2 If either N705 or N716 is present, then the other is required.
- 3 If either N708 or N709 is present, then the other is required.

Semantic Notes:

- 1 N712 is the owner of the equipment.
- 2 N723 is the operator or carrier of the rights of the equipment.

Comments:

- 1 N701 is mandatory for rail transactions.
- 2 N720 and N721 are expressed in inches.

Notes: [8] N7 SEGMENT - Primary Equipment Details
Use this loop to describe the equipment in/on which the commodity is carried. See development notes for examples of this loop. If shipment is intermodal, N7 segment refers to trailer/container; not the rail car.

Data Element Summary

Ref.	Data	Attributes	
Des.	Element	Name	
>>	N701	206 Equipment Initial	O 1 AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number	
		[8-01] Primary Equipment Initial	
M	N702	207 Equipment Number	M 1 AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
		[8-02] Primary Equipment Number	
>>	N703	81 Weight	X 1 R 1/10
		Numeric value of weight	
		[8-03] Weight	
		This is the net weight of entire shipment. If conveyance (railcar, trailer, or container) contains multiple line items, this is the total of all line items, including dunnage weight. For idler cars, enter value zero (0). (This N703 should match the sum of the weight values in all elements L004 for this transaction.)	
>>	N704	187 Weight Qualifier	X 1 ID 1/2
		Code defining the type of weight	
		[8-04] Weight Qualifier	
		Use code value 'N' to denote Net Weight.	
X	N708	183 Volume	X 1 R 1/8
		Value of volumetric measure	
X	N709	184 Volume Unit Qualifier	X 1 ID 1/1

			Code identifying the volume unit Refer to 005030 Data Element Dictionary for acceptable code values.			
>>	N711	40	Equipment Description Code Code identifying type of equipment used for shipment [8-11] Primary Equipment Description Code Code identifying type of equipment used for shipment.	O	1	ID 2/2
X	N712	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	1	ID 2/4
	N715	567	Equipment Length Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11) [8-12] Primary Equipment Length Outside length; required for intermodal equipment.	O	1	N0 4/5
X	N717	188	Weight Unit Code Code specifying the weight unit Refer to 005030 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
X	N723	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	1	ID 2/4

Segment: **M7 Seal Numbers**
Position: 1300
Loop: N7 Mandatory
Level:
Usage: Optional
Max Use: 5
Purpose: To record seal numbers used and the organization that applied the seals
Syntax Notes:
Semantic Notes:
Comments: 1 M705 indicates the name of the organization which applied the seal(s).
Notes: [9] M7 SEGMENT - Seal Numbers
 SEGMENT CONDITION: Include if seals are applied to the primary equipment.

Data Element Summary

Ref.	Data Element	Name	Attributes		
			M	1	AN 2/15
M	M701	225 Seal Number	M	1	AN 2/15
		Unique number on seal used to close a shipment [9-01] Seal Number Carry additional seal numbers in M702, M703, and M704.			
	M702	225 Seal Number	O	1	AN 2/15
		Unique number on seal used to close a shipment [9-02] Seal Number Use for additional seal numbers.			
	M703	225 Seal Number	O	1	AN 2/15
		Unique number on seal used to close a shipment [9-03] Seal Number Use for additional seal numbers.			
	M704	225 Seal Number	O	1	AN 2/15
		Unique number on seal used to close a shipment [9-04] Seal Number Use for additional seal numbers.			
X	M705	98 Entity Identifier Code	O	1	ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual Refer to 005030 Data Element Dictionary for acceptable code values.			

Segment: **REF** Reference Information

Position: 1770

Loop: REF Optional

Level:

Usage: Optional

Max Use: 1

Purpose: To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes: [10] REF SEGMENT - Intermodal/International Shipments
SEGMENT CONDITION: REF loop is required for intermodal/International shipments.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification [10-01] Reference Identification Qualifier If code value 'OB' is used, N10 segment is required. Use code value 'ZZ' to denote Certificate of Transportation Number.	M 1 ID 2/3
>>	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [10-02] Reference Identification	X 1 AN 1/30
X	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O 1
X	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005030 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005030 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	Reference Identification Qualifier	X ID 2/3

Segment: **N10** Quantity and Description
Position: 1780
Loop: REF Optional
Level:
Usage: Optional
Max Use: 15
Purpose: To indicate line item quantity, description, marks and numbers, commodity code, weight, and customs value

Syntax Notes:

- 1 If either N1004 or N1005 is present, then the other is required.
- 2 If either N1006 or N1013 is present, then the other is required.
- 3 If either N1007 or N1008 is present, then the other is required.

Semantic Notes:

- 1 If N1013 is not used, the default currency of N1006 is USD (US Dollar).
- 2 N1009 is the U.S. Customs bar code number for line release.
- 3 N1011 is the country of the manufacturer of the goods.
- 4 N1012 is the country of the final destination of the goods.
- 5 N1013 is the currency of the value of N1006.

Comments:

Notes: [11] N10 SEGMENT - Quantity and Description
 SEGMENT CONDITIONS: Use to convey Customs-related information if shipper is manifesting the shipment(s) directly with US Customs. N10 segment required if REF02 = 'OB'.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element Name</u>	
N1001	380 Quantity Numeric value of quantity [11-01] Quantity	O 1 R 1/15
N1002	369 Free-form Description Free-form descriptive text [11-02] Free-form Description	O 1 AN 1/45
N1003	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment [11-03] Marks and Numbers	O 1 AN 1/48
N1004	23 Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code [11-04] Commodity Code Qualifier Required if N1005 is used.	X 1 ID 1/1
N1005	22 Commodity Code Code describing a commodity or group of commodities [11-05] Commodity Code	X 1 AN 1/30
N1006	602 Customs Shipment Value Customs value in whole dollars [11-06] Customs Shipment Value	X 1 AN 2/8

N1007	188	Weight Unit Code	X	1	ID 1/1
		Code specifying the weight unit			
		[11-07] Weight Unit Code			
		Required if N1008 is used.			
N1008	81	Weight	X	1	R 1/10
		Numeric value of weight			
		[11-08] Weight			
N1009	127	Reference Identification	O	1	AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
		[11-09] Reference Identification			
N1010	599	Manifest Unit Code	O	1	ID 1/3
		Code defining the smallest package unit for the bill of lading			
		[11-10] Manifest Unit Code			
		Use applicable code value from ASC X12 DE 599.			
N1011	26	Country Code	O	1	ID 2/3
		Code identifying the country			
		[11-11] Country Code			
		Country of origin of goods.			
		Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from:			
		American National Standards Institute			
		11 West 42nd Street, 13 Floor			
		New York, NY 10036.			
N1012	26	Country Code	O	1	ID 2/3
		Code identifying the country			
		[11-12] Country Code			
		Country of final destination of the goods.			
		Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from:			
		American National Standards Institute			
		11 West 42nd Street, 13 Floor			
		New York, NY 10036.			
N1013	100	Currency Code	X	1	ID 3/3
		Code (Standard ISO) for country in whose currency the charges are specified			
		[11-13] Currency Code			
		Currency code values from the ISO 4217 table may be found on the web at:			
		http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html .			

Segment: **NA** Cross-Reference Equipment
Position: 1850
Loop:
Level:
Usage: Optional
Max Use: 10
Purpose: To cross-reference additional equipment to a primary piece of equipment
Syntax Notes: 1 If NA01 is present, then NA02 is required.
Semantic Notes: 1 NA07 is the owner's Standard Carrier Alpha Code (SCAC) code.
 2 NA11 indicates the equipment damage status. A "Y" indicates equipment is damaged; an "N" indicates equipment is not damaged.
Comments: 1 NA03 contains the equipment initial of an associated shipment and is required by rail. If unknown, use NONZ for van or NONU for container.
 2 NA04 contains the equipment number of an associated shipment.
 3 NA09 is the Standard Carrier Alpha Code (SCAC) code of the operator of the equipment.
Notes: [12] NA SEGMENT - Cross-Reference Equipment (Secondary)
 SEGMENT CONDITION: Used to identify equipment in addition to the primary equipment. Flat car from TOFC/COFC. If shipment is intermodal, NA segment refers to the rail car, not a trailer/container.
 [13] NA SEGMENT - Container

Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
X	NA01	128	Reference Identification Qualifier	O 1 ID 2/3
			Code qualifying the Reference Identification	
			Refer to 005030 Data Element Dictionary for acceptable code values.	
X	NA02	127	Reference Identification	X 1 AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
M	NA03	206	Equipment Initial	M 1 AN 1/4
			Prefix or alphabetic part of an equipment unit's identifying number	
			[12-03] Secondary Equipment Initial	
			[13-03] Container Initials	
			Put in initials.	
M	NA04	207	Equipment Number	M 1 AN 1/10
			Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
			[12-04] Secondary Equipment Number	
			[13-04] Container Serial Number	
>>	NA05	231	Cross Reference Type Code	O 1 ID 1/1
			Code defining relationship of equipment to equipment cross-referenced	
			[12-05] Cross Reference Type Code	
			[13-05] Cross Reference Type Code	

X	NA07	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	1	ID 2/4
X	NA08	567	Equipment Length Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)	O	1	N0 4/5
X	NA09	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	1	ID 2/4

Segment: **F9 Origin Station**
Position: 1900
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify the rail origin of the shipment
Syntax Notes:
Semantic Notes:

- 1 F902 is the origin station for movement.
- 2 F904 is the country code for the city named in the F902.
- 3 F905 is the freight station accounting code of the origin junction settlement carrier.
- 4 F908 is the Standard Point Location Code (SPLC) for the city named in the F902.
- 5 F909 is the postal code for the city named in the F902.
- 6 F910 is the Standard Point Location Code (SPLC) for the city named in the F906.
- 7 F911 is the postal code for the city named in the F906.
- 8 F912 is the country code for the city named in the F906.

Comments: 1 F905 is the freight station accounting code of the city named in F906.
Notes: [14] F9 SEGMENT - Origin Station
If F9 data is provided from the rail carrier's tender submitted via Tender Entry on the Web (TEOW) (e.g., 602 GY), F902 and F903 will map directly to the 404. If not, the N1~SF, city and state, will be mapped to F902 and F903. Mandatory for Rail.

Data Element Summary

Ref.	Data Des.	Element	Name	Attributes		
X	F901	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	O	1	ID 1/5
M	F902	19	City Name Free-form text for city name [14-02] City Name	M	1	AN 2/30
M	F903	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency [14-03] State or Province Code Also use for province if shipment is Canadian.	M	1	ID 2/2
X	F904	26	Country Code Code identifying the country	O	1	ID 2/3
X	F905	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	O	1	ID 1/5
X	F906	19	City Name Free-form text for city name	O	1	AN 2/30

X	F907	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O 1 ID 2/2
	F908	154	Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city [073] Standard Point Location Code Official code assigned to a city or point (for rate making purposes) within a city.	O 1 ID 6/9
X	F909	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
X	F910	154	Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O 1 ID 6/9
X	F911	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
X	F912	26	Country Code Code identifying the country	O 1 ID 2/3

Segment: **D9 Destination Station**
Position: 2000
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify the rail destination of the shipment
Syntax Notes:
Semantic Notes:

- 1 D902 is the destination station of movement.
- 2 D904 is the country code for the city named in the D902.
- 3 D905 is the freight station accounting code of the destination junction settlement carrier.
- 4 D908 is the Standard Point Location Code (SPLC) for the city named in the D902.
- 5 D909 is the postal code for the city names in the D902.
- 6 D910 is the Standard Point Location Code (SPLC) for the city named in the D906.
- 7 D911 is the postal code for the city named in the D906.
- 8 D912 is the country code for the city named in the D906.

Comments: 1 D905 is the freight station accounting code of the city name in D906.

Notes: [15] D9 SEGMENT - Destination Station

If D9 data is provided from the rail carrier's tender submitted via Tender Entry on the Web (TEOW) (e.g., 602 GY), D902 and D903 will map directly to the 404. If not, the N1~ST, city and state, will be mapped to D902 and D903. Mandatory for Rail.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
X	D901	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	O 1 ID 1/5
M	D902	19	City Name Free-form text for city name [15-02] City Name	M 1 AN 2/30
M	D903	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency [15-03] State or Province Code Also use for province if shipment is Canadian.	M 1 ID 2/2
X	D904	26	Country Code Code identifying the country	O 1 ID 2/3
X	D905	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	O 1 ID 1/5
X	D906	19	City Name Free-form text for city name	O 1 AN 2/30

X	D907	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O 1 ID 2/2
	D908	154	Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city [077] Standard Point Location Code	O 1 ID 6/9
X	D909	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
X	D910	154	Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O 1 ID 6/9
X	D911	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
X	D912	26	Country Code Code identifying the country	O 1 ID 2/3

Segment: **N1 Party Identification**
Position: 2100
Loop: N1 Mandatory
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Notes: [16] N1 SEGMENT - Destination (C1)
Use segment to convey carrier's delivery location information.
[20] N1 SEGMENT - Origin (SF)
Use segment to convey carrier's pickup location information.
[23] N1 SEGMENT - Consignee (CN)
Use segment to identify the installation transportation office responsible for the shipment at the final destination.
[26] N1 SEGMENT - Shipper (SH)
Use segment to convey installation transportation office responsible for the shipment at origin information.
[29] N1 SEGMENT - Bill Charges To (PF)
Provide the full address in the N3 and N4 segments to accommodate trading partners that cannot identify activities by DoDAAC/CAGE/MAPAC.
[32] N1 SEGMENT - Customs Broker (CB)
SEGMENT CONDITION: Required for all shipments to/from Canada.

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
M	98 Entity Identifier Code	M 1 ID 2/3
	Code identifying an organizational entity, a physical location, property or an individual	
	[16-01] Destination Name (C1) Qualifier This qualifier identifies name and address information of the carrier's delivery location. Government will convert code value 'ST' to code value 'C1'.	
	[20-01] Origin Name (SF) Qualifier This qualifier identifies the name and address information of the carrier's pickup location.	
	[23-01] Consignee (CN) Name Qualifier This qualifier identifies the installation transportation office responsible for the shipment at the final destination.	
	[26-01] Shipper (SH) Qualifier This qualifier identifies the installation transportation office responsible for	

the shipment at origin.
[29-01] Bill Charges To (PF) Qualifier
Government will convert code value 'PO' to code value 'PF'.
[32-01] Customs Broker Identifier (CB) Qualifier

N102 **93** **Name** **X** **1** **AN 1/60**

Free-form name

[16-02] Destination Name (C1)
Enter 'US Government' unless shipment is to/from a US Government contractor.
[20-02] Origin Name (SF)
Enter 'US Government' unless shipment is to/from a US Government contractor.
[23-02] Consignee (CN) Name
Enter 'US Government'.
[26-02] Shipper Name (SH)
Enter 'US Government'.
[29-02] Bill Charges To (PF)
US Bank
[32-02] Customs Broker Name (CB)

N106 **98** **Entity Identifier Code** **O** **1** **ID 2/3**

Code identifying an organizational entity, a physical location, property or an individual

Refer to 005030 Data Element Dictionary for acceptable code values.

Segment: N3 Party Location
Position: 2200
Loop: N1 Mandatory
Level:
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Notes: [17] N3 SEGMENT - Destination (C1)
 SEGMENT CONDITION: Use when destination address information applies.
 [21] N3 SEGMENT - Origin (SF)
 SEGMENT CONDITION: Use when pick-up street address information applies.
 [24] N3 SEGMENT - Consignee (CN)
 SEGMENT CONDITION: Use when street address for installation transportation office responsible for the shipment at the final destination applies.
 [27] N3 SEGMENT - Shipper (SH)
 SEGMENT CONDITION: Use when street address for installation transportation office responsible for the shipment at origin applies.
 [30] N3 SEGMENT - Bill Charges To (PF)
 [33] N3 SEGMENT - Customs Broker (CB)
 SEGMENT CONDITION: Required for all shipments to/from Canada.

Data Element Summary

Ref.	Data		Attributes
Des.	Element	Name	
M	N301	166 Address Information	M 1 AN 1/55
		Address information	
		[17-01] Street (C1)	
		[21-01] Street (SF)	
		[24-01] Street (CN)	
		[27-01] Street (SH)	
		[30-01] Street Address (PF)	
		[33-01] Street Address (CB)	
	N302	166 Address Information	O 1 AN 1/55
		Address information	
		[17-02] Street (C1)	
		Use for additional street address information.	
		[21-02] Street (SF)	
		Use for additional street address information.	
		[24-02] Street (CN)	
		Use for additional street address information.	
		[27-02] Additional Street (SH)	
		[30-02] Street Address (CB)	
		Use for additional street address information.	

Segment: **N4 Geographic Location**
Position: 2300
Loop: N1 Mandatory
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
Notes: [18] N4 SEGMENT - Destination (C1)
[22] N4 SEGMENT - Origin (SF)
[25] N4 SEGMENT - Consignee (CN)
SEGMENT CONDITION: Use when city, state, and ZIP code, or country code for installation transportation office responsible for the shipment at the final destination applies.
[28] N4 SEGMENT - Shipper (SH)
SEGMENT CONDITION: Use when city, state, and ZIP code, or country code for installation transportation office responsible for the shipment at origin applies.
[31] N4 SEGMENT - Bill Charges To (PF)
[34] N4 SEGMENT - Customs Broker (CB)
SEGMENT CONDITION: Required for all shipments to/from Canada.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element Name</u>	
N401	19 City Name	O 1 AN 2/30
	Free-form text for city name	
	[18-01] City (C1)	
	[22-01] City (SF)	
	[25-01] City (CN)	
	[28-01] City (SH)	
	[31-01] City (PF)	
	[34-01] City (CB)	
N402	156 State or Province Code	O 1 ID 2/2
	Code (Standard State/Province) as defined by appropriate government agency	
	[18-02] Province or State Code (C1)	
	If shipment is Canadian, use for province.	
	[22-02] Province or State (SF)	
	If shipment is Canadian, use for province.	
	[25-02] State (CN)	
	Also use for province if shipment is Canadian.	
	[28-02] State Code (SH)	
	Also use for province if shipment is Canadian.	
	[31-02] State Code (PF)	

		[34-02] State or Province Code (CB)		
N403	116	Postal Code	O 1 ID 3/15	
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
		[18-03] ZIP/Postal Code (C1)		
		[22-03] ZIP/Postal Code (SF)		
		[25-03] ZIP/Postal Code (CN)		
		[28-03] ZIP/Postal Code (SH)		
		[31-03] ZIP/Postal Code (PF)		
		[34-03] ZIP/Postal Code (CB)		
N404	26	Country Code	O 1 ID 2/3	
		Code identifying the country		
		[18-04] Country Code (C1)		
		If destination is OCONUS, ISO country code is required.		
		Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from:		
		American National Standards Institute		
		11 West 42nd Street, 13 Floor		
		New York, NY 10036.		
		[22-04] Country Code (SF)		
		If origin is OCONUS, ISO country code is required.		
		[25-04] Country Code (CN)		
		If consignee is OCONUS, country code is required.		
		[28-04] Country Code (SH)		
		[34-04] Country Code (CB)		
N405	309	Location Qualifier	X 1 ID 1/2	
		Code identifying type of location		
		[18-05] Destination SPLC (C1) Qualifier		
		[22-05] Shipping Point SPLC (SF) Qualifier		
		[34-05] Destination SPLC (CB) Qualifier		
N406	310	Location Identifier	O 1 AN 1/30	
		Code which identifies a specific location		
		[18-06] Destination SPLC (C1)		
		Nine-digit SPLC is required for costing.		
		[22-06] Shipping Point SPLC (SF)		
		Nine-digit SPLC is required for costing.		
		[34-06] Destination SPLC (CB)		

Segment: **PER Administrative Communications Contact**
Position: 2400
Loop: N1 Mandatory
Level:
Usage: Optional
Max Use: 2
Purpose: To identify a person or office to whom administrative communications should be directed

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes: [19] PER SEGMENT - Destination (C1)
 SEGMENT CONDITION: Use for Canadian shipments - no phone extensions are allowed - the number must be a direct line.

Data Element Summary

Ref.	Data Des.	Element	Name	Attributes
M	PER01	366	Contact Function Code	M 1 ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			[19-01] Contact Function Code	
>>	PER02	93	Name	O 1 AN 1/60
			Free-form name	
			[19-02] Contact Name	
			If none provided, enter value 'TRANSPORTATION OFFICER'.	
>>	PER03	365	Communication Number Qualifier	X 1 ID 2/2
			Code identifying the type of communication number	
			[19-03] Telephone Number Qualifier	
>>	PER04	364	Communication Number	X 1 AN 1/80
			Complete communications number including country or area code when applicable	
			[19-04] Telephone Number	
X	PER05	365	Communication Number Qualifier	X 1 ID 2/2
			Code identifying the type of communication number	
			Refer to 005030 Data Element Dictionary for acceptable code values.	
X	PER06	364	Communication Number	X 1 AN 1/80
			Complete communications number including country or area code when applicable	
X	PER07	365	Communication Number Qualifier	X 1 ID 2/2
			Code identifying the type of communication number	

Segment: **R2** Route Information
Position: 4600
Loop:
Level:
Usage: Mandatory
Max Use: 13
Purpose: To specify carrier and routing sequences and details
Syntax Notes: 1 If R208 is present, then R207 is required.
Semantic Notes: 1 R203 is the station or city name at which carriers interchange shipments.
 2 R210 is the billing date.
Comments:
Notes: [35] R2 SEGMENT - Route Via

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	R201	140 Standard Carrier Alpha Code	M 1 ID 2/4
		Standard Carrier Alpha Code	
		[35-01] Standard Carrier Alpha Code - Via (Routing) SCAC of interline and destination carrier(s) in sequence after origin carrier. The origin carrier should be included in an interline list.	
M	R202	133 Routing Sequence Code	M 1 ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		[35-02] Via (Routing) SCAC Qualifier Use code value 'S' to denote Origin Carrier, Shipper's Routing.	
	R203	19 City Name	O 1 AN 2/30
		Free-form text for city name	
		[35-03] Interchange Location Use for all R2s except for the final R2. Interchange is where the carrier in R201 passes the shipment forward to the next carrier. The interchange locations should follow Rule 260.	
X	R204	154 Standard Point Location Code	O 1 ID 6/9
		Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	
	R205	177 Intermodal Service Code	O 1 ID 1/2
		Code identifying the Intermodal Service Plan	
		[35-05] Intermodal Service Code Use for intermodal shipments. If BX02 = 'X' and N711 = 'CN' or 'TL', then R205 is required. Use code value '20' for rail owned equipment and code value '60' for privately owned cars.	
X	R206	91 Transportation Method/Type Code	O 1 ID 1/2

Code specifying the method or type of transportation for the shipment
Refer to 005030 Data Element Dictionary for acceptable code values.

X	R210	373	Date	O 1 DT 8/8
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	
X	R211	369	Free-form Description	O 1 AN 1/45
			Free-form descriptive text	

Segment: **H3** Special Handling Instructions
Position: 5200
Loop:
Level:
Usage: Optional
Max Use: 20
Purpose: To specify special handling instructions in coded or free-form format
Syntax Notes: 1 Only one of H301 or H302 may be present.
Semantic Notes:
Comments:
Notes: [36] H3 SEGMENT - Accessorial/Protective Service
 SEGMENT CONDITION: Use when Accessorial/Protective Service applies.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
>>	H301	152	Special Handling Code	X 1 ID 2/3
			Code specifying special transportation handling instructions	
			[36-01] Accessorial/Protective Service Code	
			Use if shipper orders accessorial services from the carrier. Order accessorial services with this data element. To order accessorial services, the carrier industry requires the use of the H3 segment.	
			See Section 6.0 (Rail Carrier Shipment Information Implementation Convention) for the valid code list.	
			To find Section 6.0 on the web, go to https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010	
			[Instructions: At that web location sign in as Guest and select the 404A IC.]	
X	H303	241	Protective Service Code	O 1 ID 1/4
			Code specifying perishable protective service- rail carriers only	
			Refer to 005030 Data Element Dictionary for acceptable code values.	

Segment:	PS Protective Service Instructions
Position:	5300
Loop:	
Level:	
Usage:	Optional
Max Use:	5
Purpose:	To specify mechanical protective service and ventilation instructions
Syntax Notes:	<ol style="list-style-type: none"> 1 If PS03 is present, then at least one of PS04 or PS14 is required. 2 If PS04 is present, then PS03 is required. 3 If PS14 is present, then PS03 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 PS03 qualifies the temperature in PS04 and PS14. 2 PS04 is the optimum allowable temperature condition for shipment. 3 PS11 identifies the location of the heater. A "Y" indicates the heater is ceiling-mounted; an "N" indicates the heater is in the body. 4 PS12 identifies whether or not the commodity is a food product. A "Y" indicates the commodity is a food product; an "N" indicates it is a non-food product. 5 PS13 indicates the amount of doorway space for the full width of the car. A "Y" indicates the doorway space is not less than 30 inches for the full width of the car; an "N" indicates it is less than 30 inches. 6 PS14 is the set temperature at service origin.
Comments:	<ol style="list-style-type: none"> 1 PS05 through PS08 are used to specify the station to which the temperature applies. PS05 and PS06 are preferred over PS07 and PS08. 2 PS09 is the weight of body ice in hundreds.
Notes:	[37] PS SEGMENT - Heater/Refrigerated Temperature Control SEGMENT CONDITION: Use only for Heater/refrigerator service, i.e., use this segment when H301 contains 'HRS' (Heater/Refrigerator Service).

Data Element Summary

Ref.	Data	Attributes
<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>ID</u> <u>3/9</u>
M	PS01 746 Protective Service Rule Code Association of American Railroads (AAR) Protective Service that applies to shipment [37-01] Rail Service Rule Code See Section 6.0 (Rail Carrier Shipment Information Implementation Convention) for the valid code list. To find Section 6.0 on the web, go to https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010 [Instructions: At that web location sign in as Guest and select the 404A IC.]	M 1 ID 3/9
M	PS02 241 Protective Service Code Code specifying perishable protective service- rail carriers only [37-02] Protective Service Code	M 1 ID 1/4

	PS03	355	Unit or Basis for Measurement Code	X	1	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
			[37-03] Temperature Qualifier Required if PS04 is used.			
	PS04	408	Temperature	X	1	R 1/4
			Temperature			
			[37-04] Temperature			
X	PS05	140	Standard Carrier Alpha Code	O	1	ID 2/4
			Standard Carrier Alpha Code			
X	PS06	573	Freight Station Accounting Code	O	1	ID 1/5
			Code (Freight Station Accounting) (AAR Managed Code for Locations)			
X	PS07	19	City Name	O	1	AN 2/30
			Free-form text for city name			
X	PS08	156	State or Province Code	O	1	ID 2/2
			Code (Standard State/Province) as defined by appropriate government agency			
X	PS09	81	Weight	O	1	R 1/10
			Numeric value of weight			
X	PS14	408	Temperature	X	1	R 1/4
			Temperature			

Segment: **LX** Transaction Set Line Number
Position: 5400
Loop: LX Mandatory
Level:
Usage: Mandatory
Max Use: 1
Purpose: To reference a line number in a transaction set
Syntax Notes:
Semantic Notes:
Comments:
Notes: [38] LX SEGMENT - Assigned Number

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M		554	Assigned Number	M 1 N0 1/6
			Number assigned for differentiation within a transaction set	
			[38-01] Assigned Number	
			No leading zeros.	

Segment: **L5** Description, Marks and Numbers
Position: 5500
Loop: LX Mandatory
Level:
Usage: Mandatory
Max Use: 15
Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers

- Syntax Notes:**
- 1 If either L503 or L504 is present, then the other is required.
 - 2 If L507 is present, then L506 is required.
 - 3 If either L508 or L509 is present, then the other is required.

Semantic Notes:

- Comments:**
- 1 L502 may be used to send quantity information as part of the product description.

Notes: [39] L5 SEGMENT - Descriptions, Marks, and Numbers

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
>>	L501	213	Lading Line Item Number	O 1 N0 1/3
			Sequential line number for a lading item	
			[39-01] Lading Line Item Number	
			This number matches L001. No leading zeros.	
>>	L502	79	Lading Description	O 1 AN 1/50
			Description of an item as required for rating and billing purposes	
			[39-02] Lading Description	
			Clear text description of the line item. No generalized commodity descriptions are allowed. Can not use the verbiage "F.A.K." or "Freight All Kind" as the description of the line item. Any other description is acceptable. When mixed HAZMAT, L502 shall contain corresponding mixed hazardous verbiage. Required for cross-border shipments.	
>>	L503	22	Commodity Code	X 1 AN 1/30
			Code describing a commodity or group of commodities	
			[39-03] Standard Transportation Commodity Code (STCC)	
			For cross-border shipments, do not use '4611115'. For "Freight All Kind" use 4611115 STCC code. If shipment is HAZMAT, field must contain 48/49 series HMRC number. For intermodal traffic, must contain mixed hazardous STCC 495 series HMRC number.	
>>	L504	23	Commodity Code Qualifier	X 1 ID 1/1
			Code identifying the commodity coding system used for Commodity Code	
			[39-04] STCC Qualifier	
			Use code value 'L' when shipping empty.	
X	L506	87	Marks and Numbers	X 1 AN 1/48
			Marks and numbers used to identify a shipment or parts of a shipment	
X	L508	23	Commodity Code Qualifier	X 1 ID 1/1

Code identifying the commodity coding system used for Commodity Code
Refer to 005030 Data Element Dictionary for acceptable code values.

X	L509	22	Commodity Code	X	1	AN 1/30
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Code describing a commodity or group of commodities

Segment: **L0** Line Item - Quantity and Weight
Position: 5700
Loop: L0 Optional (Must Use)
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

- Syntax Notes:**
- 1 If either L002 or L003 is present, then the other is required.
 - 2 If either L004 or L005 is present, then the other is required.
 - 3 If either L006 or L007 is present, then the other is required.
 - 4 If either L008 or L009 is present, then the other is required.
 - 5 If L011 is present, then L004 is required.
 - 6 If either L013 or L015 is present, then the other is required.

- Semantic Notes:**
- 1 L008 is the number of handling units of the line item tendered to the carrier.
 - 2 L013 can only be used if the code in L009 is PLT, SKD, or SLP.
 - 3 L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.

- Comments:**
- 1 L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

Notes: [40] L0 SEGMENT - Line Item (Quantity and Weight)
Sum the lading quantities and weights together for a single commodity with identical packaging types. If a commodity is shipped in multiple packaging types, begin a new L0-Line Item (Quantity and Weight) loop to account for each different packaging type.

Data Element Summary

Ref.	Data				Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>			
>> L001	213	Lading Line Item Number			O 1 N0 1/3
		Sequential line number for a lading item			
		[40-01] Lading Line Item Number			
		Enter sequential line number for a lading item (no leading zeros). Use sequential numbers to identify separate lading items (e.g., '1' for first lading item, '2' for second, etc.). This number matches the value contained in Lading Line Item Number, segment L501, position 550.			
L002	220	Billed/Rated-as Quantity			X 1 R 1/11
		Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81			
		[40-02] Billed/Rated-as Quantity			
		Use when rating a shipment on something other than weight.			
		A commodity is a single type of product or material. Transportation of a commodity is usually billed/rated by units of freight weight. A line item on a transportation bill describes a single commodity. The quantity of a line			

item commodity is described here in the L0 segment in the LX - Assigned Number Loop. One L0 segment occurs for each type pack under the line item. There may be many line items, i.e., L0-Line Item (Quantity and Weight) loops for the same commodity.

Two rules must be followed when constructing an L0 segment:

1) If the billed/rated quantity is the weight expressed in pounds, it appears here. Freight weight is the weight that line haul rate is based upon and may include skid, pallet, and dunnage weights, carried in separate MEA segments. The L004, L005, and L011 elements are not used.

2) If the billed/rated quantity is the weight expressed in gallons in the case of tank car shipments or is expressed in Barrels in the case of pipeline shipment, it also appears here. If entry does not contain a decimal, decimal is assumed at right-most point of the field. In addition, the L004, L005, and L011 elements are used to carry the weight information, if required.

	L003	221	Billed/Rated-as Qualifier	X	1	ID 2/2
			Code identifying the type of quantity or value on which the rate or item pricing is based			
			[40-03] Billed/Rated-as Qualifier			
			Use when rating a shipment on something other than weight.			
	L004	81	Weight	X	1	R 1/10
			Numeric value of weight			
			[40-04] Weight			
			Use L004 and L005 when the shipment is based on pounds.			
			Freight weight of line item described in pounds only. Freight weight is the weight that line haul rate is based on and may include skid, pallet, and dunnage weights, depending on the applicable tender. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.			
	L005	187	Weight Qualifier	X	1	ID 1/2
			Code defining the type of weight			
			[40-05] Weight Qualifier			
			Use L004 and L005 when the shipment is based on pounds.			
	L006	183	Volume	X	1	R 1/8
			Value of volumetric measure			
			[40-06] Volume			
			Enter value of volumetric measure. Use L006 and L007 when shipment is based on volume.			
	L007	184	Volume Unit Qualifier	X	1	ID 1/1
			Code identifying the volume unit			
			[40-07] Volume Unit Qualifier			
			Use L006 and L007 when shipment is based on volume.			
>>	L008	80	Lading Quantity	X	1	N0 1/7
			Number of units (pieces) of the lading commodity			
			[40-08] Lading Quantity			

>>	L009	211	Packaging Form Code	X	1	ID 3/3
			Code for packaging form of the lading quantity [40-09] Packaging Form Code See Section 6.0 (Rail Carrier Shipment Information Implementation Convention) for the valid code list. To find Section 6.0 on the web, go to https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010 [Instructions: At that web location sign in as Guest and select the 404A IC.]			
	L011	188	Weight Unit Code	O	1	ID 1/1
			Code specifying the weight unit [40-11] Weight Unit Code Required if L004 is used.			
X	L013	380	Quantity	X	1	R 1/15
			Numeric value of quantity			
X	L014	211	Packaging Form Code	O	1	ID 3/3
			Code for packaging form of the lading quantity Refer to 005030 Data Element Dictionary for acceptable code values.			

Segment: **PI Price Authority Identification**

Position: 5900

Loop: PI Optional (Must Use)

Level:

Usage: Optional (Must Use)

Max Use: 1

Purpose: To communicate basis of pricing, such as contract number, quote number, or tariff number

Syntax Notes: 1 If PI14 is present, then PI12 is required.

2 If PI15 is present, then PI13 is required.

Semantic Notes: 1 PI07 is the price authority suffix for the contract.

2 PI08 is the price authority item number.

3 PI09 is the price authority supplement.

4 PI10 is the price authority section number.

5 PI11 is the price authority suffix for tariff.

6 PI12 is the effective date.

7 PI13 is the expiration date.

Comments:

Notes: [41] PI SEGMENT - Tender Information

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	PI01	128 Reference Identification Qualifier Code qualifying the Reference Identification [41-01] Rate Agreement Qualifier	M 1 ID 2/3
M	PI02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [41-02] Tender Number Carry only the six-position numeric value here; the alpha prefix is carried in PI06 and the two-position (suffix) supplement is carried in PI07, as required.	M 1 AN 1/30
>>	PI03	436 Primary Publication Authority Code Code indicating type of external reference [41-03] Primary Publication Authority Code	O 1 ID 2/2
>>	PI05	168 Tariff Agency Code Code defining the tariff bureau or tariff publishing agent that governs the rates applied to this shipment [41-05] Origin Carrier SCAC	O 1 ID 1/4
>>	PI06	965 Issuing Carrier Identifier Identification assigned by issuing carrier [41-06] Tender Alpha Prefix Carry alpha part of tender number here. Note: Same as SCAC.	O 1 AN 1/10

	PI07	660	Contract Suffix Used to identify a type of contract [41-07] Tender Supplement	O	1	AN 1/2
X	PI11	660	Contract Suffix Used to identify a type of contract	O	1	AN 1/2
X	PI12	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X	1	DT 8/8
X	PI13	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X	1	DT 8/8

Segment: **LS** Loop Header
Position: 6700
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To indicate that the next segment begins a loop
Syntax Notes:
Semantic Notes: 1 One loop may be nested contained within another loop, provided the inner nested loop terminates before the outer loop. When specified by the standard setting body as mandatory, this segment in combination with "LE", must be used. It is not to be used if not specifically set forth for use. The loop identifier in the loop header and trailer must be identical. The value for the identifier is the loop ID of the required loop segment. The loop ID number is given on the transaction set diagram in the appropriate ASC X12 version/release.
Comments: 1 See Figures Appendix for an explanation of the use of the LS and LE segments.
Notes: [42] LS SEGMENT - Loop Header
 LOOP CONDITION: Use this loop to describe HAZMAT (LH1 loop) items.

Data Element Summary

Ref.	Data	<u>Attributes</u>	
<u>Des.</u>	<u>Element</u> <u>Name</u>		
M	LS01 447 Loop Identifier Code	M	1 AN 1/4
	The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE [42-01] Loop Identifier Code Whole number incremented by 1 for each LH1 loop.		

Segment: **LH1** **Hazardous Identification Information**
Position: 6800
Loop: LH1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the hazardous commodity identification reference number and quantity
Syntax Notes:
Semantic Notes:
Comments:

- 1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
- 2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for shipments.
- 3 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Notes: [43] LH1 SEGMENT - HAZMAT Quantities
 LOOP CONDITION: This loop occurs for each HAZMAT line item described in the LX loop in position 540.

Data Element Summary

Ref.	Data	Element	Name	Attributes
M	LH101	355	Unit or Basis for Measurement Code	M 1 ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			[43-01] HAZMAT - Unit of Measure Code	
			Contains the code identifying the unit of measure (type of packaging) for which the data in LH102 is reported. See Section 6.0 for appropriate code values.	
			See Section 6.0 (Rail Carrier Shipment Information Implementation Convention) for the valid code list.	
			To find Section 6.0 on the web, go to https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010	
			[Instructions: At that web location sign in as Guest and select the 404A IC.]	
M	LH102	80	Lading Quantity	M 1 N0 1/7
			Number of units (pieces) of the lading commodity	
			[43-02] HAZMAT - Lading Quantity	
			Contains the number of units (pieces) of the lading commodity. Reference 49 CFR 172.202(c).	
>>	LH103	277	UN/NA Identification Code	O 1 ID 6/6
			Code identifying the hazardous material identification number as required	

by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America

[43-03] UN/NA Identification Code

Contains the United Nations/North America (UN/NA) code.

>> **LH105** **22** **Commodity Code** **O** **1** **AN 1/30**

Code describing a commodity or group of commodities

[43-05] STCC

From 858, L503. Must contain 7 digit numeric hazardous material response code (HMRC).

LH106 **355** **Unit or Basis for Measurement Code** **O** **1** **ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

[43-06] HAZMAT - Unit of Measure Code

Use the unit of measure codes only for quantity or volume of non-bulk hazardous shipments. This includes all codes referenced in LH101 to express type of packaging (will typically be pounds, kilograms, cubic feet, or a unit of measure other than pieces).

See Section 6.0 (Rail Carrier Shipment Information Implementation Convention) for the valid code list.

To find Section 6.0 on the web, go to

[https://dteb.lmi.org/dod/dteb.nsf/\(DocLevel2\)?OpenView&cat1=IC&cat2=4010](https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010)

[Instructions: At that web location sign in as Guest and select the 404A IC.]

LH107 **380** **Quantity** **O** **1** **R 1/15**

Numeric value of quantity

[43-07] HAZMAT - Non-Bulk Quantity

Use the unit of measure codes only for non-bulk hazardous shipments. Quantity refers to the amount (i.e., weight in pounds/kilograms, volume in cubic feet, or other such measurement) of the HAZMAT commodity to be transported.

LH109 **665** **Residue Indicator Code** **O** **1** **ID 1/1**

Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded

[43-09] Residue Indicator Code

Use this element and code value 'R' if required to indicate that the unit being shipped is empty and contains a residue from a prior movement, reference 49 CFR 172.203(e). In this situation, L504 should use code value 'L' to denote Last Contained Contents.

LH110 **254** **Packing Group Code** **O** **1** **ID 1/3**

Code indicating degree of danger in terms of Roman number I, II or III

[43-10] Packing Group Code

Use this element when required to indicate the packing group, using

Roman Numeral I, II, or III, to indicate the degree of danger as shown in column 5 of 49 CFR, Table 172.101.

Segment: **LH2 Hazardous Classification Information**

Position: 6900

Loop: LH1 Optional

Level:

Usage: Optional

Max Use: 4

Purpose: To specify the hazardous notation and endorsement information

- Syntax Notes:**
- 1 If either LH206 or LH207 is present, then the other is required.
 - 2 If either LH208 or LH209 is present, then the other is required.
 - 3 If either LH210 or LH211 is present, then the other is required.
 - 4 If either LH212 or LH213 is present, then the other is required.

- Semantic Notes:**
- 1 LH206 and LH207 indicate the flashpoint temperature.
 - 2 LH208 and LH209 indicate the control temperature.
 - 3 LH210 and LH211 indicate the emergency temperature.
 - 4 LH212 and LH213 indicate the net explosive weight.

Comments:

Notes: [44] LH2 SEGMENT - Hazardous Classification Information
 SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used. If available, subsidiary class is required for Canadian shipments.

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u> <u>Name</u>		
>> LH201	215 Hazardous Classification	O	1 ID 1/30
	The hazardous classification corresponding to the shipping name of the hazardous commodity		
	[44-01] Hazardous Classification Identify the hazard class or division prescribed for the material as shown in column 3 of 49 CFR Table 172.101. If there is no hazard class or division, use the code in that column, such as ORM-D (Other Regulated Material), reference 49 CFR 173.2. If there is a subsidiary hazard but no hazard class or division, use 'NA'. A material for which the entry in this column is 'Forbidden' may not be offered for transportation nor be transported. This segment needs to be repeated for each subsidiary hazard.		
>> LH202	983 Hazardous Class Qualifier	O	1 ID 1/1
	Code qualifying hazardous class		
	[44-02] Hazardous Class Qualifier Use code value 'S' for Canadian shipments.		
LH205	759 Reportable Quantity Code	O	1 ID 2/2
	Code to identify presence of hazardous substance		
	[44-05] Reportable Quantity Code Element required when necessary to indicate a reportable quantity is present in the shipment. For empty packagings or units containing the residue of a hazardous material, reference 49 CFR 172.203(e).		
LH206	355 Unit or Basis for Measurement Code	X	1 ID 2/2
	Code specifying the units in which a value is being expressed, or manner		

in which a measurement has been taken

[44-06] HAZMAT Flashpoint Temperature Code
Required when LH207 is used.

	LH207	408	Temperature Temperature	X	1	R 1/4
			[44-07] HAZMAT Flashpoint Temperature			
X	LH208	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 005030 Data Element Dictionary for acceptable code values.	X	1	ID 2/2
X	LH209	408	Temperature Temperature	X	1	R 1/4
X	LH210	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 005030 Data Element Dictionary for acceptable code values.	X	1	ID 2/2
X	LH211	408	Temperature Temperature	X	1	R 1/4
>>	LH212	188	Weight Unit Code Code specifying the weight unit	X	1	ID 1/1
			[44-12] Weight Unit Code			
>>	LH213	267	Net Explosive Quantity Net weight of the explosive quantity of the hazardous commodity [44-13] Net Explosive Quantity Net Explosive Quantity is the actual weight of explosive mixtures or compounds (e.g., weight of the gun power).	X	1	N0 1/6

Segment: **LH3 Hazardous Material Shipping Name Information**

Position: 7000

Loop: LH1 Optional

Level:

Usage: Optional

Max Use: 10

Purpose: To specify the hazardous material shipping name and additional descriptive requirements

Syntax Notes: 1 If either LH301 or LH302 is present, then the other is required.

Semantic Notes: 1 If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.

Comments:

Notes: [45] LH3 SEGMENT - Hazardous Material Shipping Name
SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
>> LH301	224 Hazardous Material Shipping Name	X 1 AN 1/25
	The proper shipping name of the hazardous commodity as specified by Title 49 Code of Federal Regulations, or the shipping name of the dangerous good as defined in the Canadian Transportation of Dangerous Goods Act and Regulations, or the international regulations as promulgated by the United Nations	
	[45-01] Hazardous Material Shipping Name From table at 49 CFR 172.101, column 2. Mandatory for all HAZMAT shipments including ammunition and explosives. See 49 CFR 172.202 for additional details. Place remainder of Proper Shipping Name exceeding 25 characters in another occurrence of the LH3. Can not hyphenate/break a shipping name regardless of field length unless the name is broken where hyphens already exist.	
>> LH302	984 Hazardous Material Shipping Name Qualifier	X 1 ID 1/1
	Qualifier indicating the source (regulatory) of the proper shipping name	
	[45-02] Hazardous Material Shipping Name Qualifier	
LH303	985 N.O.S. Indicator Code	O 1 ID 3/3
	Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified	
	[45-03] NOS Indicator Code If this field is used, an LFH segment must follow using code value 'TEC' in LFH01.	

Segment: **LFH** Free-form Hazardous Material Information

Position: 7100

Loop: LH1 Optional

Level:

Usage: Optional

Max Use: 20

Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments

Syntax Notes: 1 If either LFH05 or LFH06 is present, then the other is required.

Semantic Notes: 1 LFH06 indicates activity of the radioactive material.

2 LFH07 indicates transport index of the radioactive material.

Comments:

Notes: [46] LFH SEGMENT - Hazardous Material Additional Shipment Information
SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LFH01	808	Hazardous Material Shipment Information Qualifier Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements [46-01] Hazardous Material Additional Shipment Information Qualifier Contains the HAZMAT shipment information qualifier indicating the type of information being passed. Mandatory for all explosives unless otherwise noted in 49 CFR 172.320. Use interim EX-number for explosives waiting for final classification. If the X12 code definition accompanying a LFH01 code value contains text in quotations, place the part in quotations in LFH02. If the code definition contains no quotations, see the user note in LFH02 for further guidance. If the N.O.S. indicator is specified in LH303, use 'TEC' in this data element. Use code value 'ADI - Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the shipper' for other information not accounted for in the code list. Enter additional information that must appear in association with the shipment's basic description according to 49 CFR. Use additional occurrences of LFH segment as necessary for each code that applies to shipment.	M 1 ID 3/3
M	LFH02	809	Hazardous Material Shipment Information Specific information required by law for hazardous material shipments [46-02] Hazardous Material Additional Shipment Information Contains specific information about the HAZMAT shipment. When applicable, use the descriptive narrative from LFH01. If LFH01 = 'ADI',	M 1 AN 1/25

use this element for any overflow information from LFH01 or 49 CFR except Proper Shipping Name. Use LFH03 for additional overflow.

If LFH01 = 'PIH', enter "Poisonous - Inhalation Hazard, Zone X", where X is the code designated in LFH04.

If LFH01 = 'HOT', enter "HOT" [See 49 CFR 172.203(n)].

If LFH01 = 'RAM', enter the appropriate text in quotes as specified by 49 CFR 172.203(d).

If LFH01 = 'LQY', enter "Ltd Qty" or "Limited Quantity".

If LFH01 = 'HZC', enter "Hazardous substance constituents."

If LFH01 = 'MOS', enter "Maximum operating speed."

If LFH01 = 'MPI', enter "Marine Pollutant."

If LFH01 = 'POI', enter "Poison" and use a second LFH with code value 'ADI' to indicate the Infectious Risk Group Information.

If LFH01 = 'ADI', enter appropriate infectious Risk Group or Fumigation Information.

For N.O.S. code (LFH01 = 'TEC'), enter the technical or chemical group name in parentheses. Place overflow in LFH03. Do not close parentheses until end of description is reached.

	LFH03	809	Hazardous Material Shipment Information	O	1	AN 1/25
			Specific information required by law for hazardous material shipments			
			[46-03] Hazardous Material Additional Shipment Information			
			Use for description overflow from LFH02. Use LFH01, 02, and 03 as a set and repeat loop as necessary to convey all additional basic description information.			
	LFH04	1023	Hazard Zone Code	O	1	ID 1/1
			Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone			
			[46-04] Hazard Zone Code			
			Use applicable Hazard Zone Code when LFH01 = PIH. Contains the code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone.			
X	LFH05	355	Unit or Basis for Measurement Code	X	1	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
			Refer to 005030 Data Element Dictionary for acceptable code values.			
X	LFH06	380	Quantity	X	1	R 1/15
			Numeric value of quantity			
X	LFH07	380	Quantity	O	1	R 1/15
			Numeric value of quantity			

Segment: **LH4** Canadian Dangerous Requirements
Position: 7300
Loop: LH1 Optional
Level:
Usage: Optional
Max Use: 4
Purpose: To specify additional Transport Canada requirements covering transportation of dangerous goods in Canada

Syntax Notes: 1 If either LH408 or LH412 is present, then the other is required.
Semantic Notes: 1 LH411 is an additional telephone number.

Comments: 1 LH402 is used for the emergency response plan telephone number.
 2 LH404 is for the first subsidiary classification.
 3 LH405 is for the second subsidiary classification.
 4 LH406 is for the third subsidiary classification.

Notes: [47] LH4 SEGMENT - Canadian Dangerous Requirements
 SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
>>	LH401	238	Emergency Response Plan Number	O 1 AN 1/12
			The identity number of a specific hazardous emergency response plan that is assigned by the Director General of Canada	
			[47-01] Emergency Response Plan Number Required if the commodity is listed in Schedule XII of the Canadian TDG regulations.	
>>	LH402	364	Communication Number	O 1 AN 1/80
			Complete communications number including country or area code when applicable	
			[47-02] Communication Number Required if LH401 is present.	
X	LH403	254	Packing Group Code	O 1 ID 1/3
			Code indicating degree of danger in terms of Roman number I, II or III	
	LH407	271	Subsidiary Risk Indicator	O 1 ID 1/2
			Code identifying the type of subsidiary risk	
			[47-07] Subsidiary Risk Indicator Code identifying the type of subsidiary risk.	
	LH408	267	Net Explosive Quantity	X 1 N0 1/6
			Net weight of the explosive quantity of the hazardous commodity	
			[47-08] Net Explosive Quantity Use for Class 1 Dangerous Goods - express the net weight of the explosive quantity.	
	LH409	805	Canadian Hazardous Notation	O 1 AN 1/25
			Notation required by Canadian regulatory agencies	

[47-09] Canadian Hazardous Notation
Use only if transporting "Anhydrous Ammonia" - UN1005

LH410 986 Special Commodity Indicator Code O 1 ID 1/1
Code indicating 'Special Commodity' notation on operational waybill as identified by the Transportation of Dangerous Goods Act and Regulation (TDG)

[47-10] Special Commodity Indicator Code
Code indicating special commodity as identified by the Transportation of Dangerous Goods Act and Regulation.

X LH411 364 Communication Number O 1 AN 1/80
Complete communications number including country or area code when applicable

LH412 355 Unit or Basis for Measurement Code X 1 ID 2/2
Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

[47-12] Unit or Basis for Measurement Code
Identifies unit of measure in LH408.

Segment: **LHT** Transborder Hazardous Requirements
Position: 7400
Loop: LH1 Optional
Level:
Usage: Optional
Max Use: 3
Purpose: To specify the placard information required by the second government agency when shipment is to cross into another country

Syntax Notes:
Semantic Notes:

Comments:

Notes: [48] LHT SEGMENT - Transborder Hazardous Requirements
 SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
>>	LHT01	215 Hazardous Classification	O 1 ID 1/30
		The hazardous classification corresponding to the shipping name of the hazardous commodity [48-01] Hazardous Classification For US to Canada transborder moves, this field must contain the information required by the Canadian regulations when the proper shipping name is Anhydrous Ammonia and/or Anhydrous Ammonia Solutions.	

Segment: **LHR** Hazardous Material Identifying Reference Numbers
Position: 7500
Loop: LH1 Optional
Level:
Usage: Optional
Max Use: 5
Purpose: To transmit specific hazardous material reference numbers
Syntax Notes:
Semantic Notes:
Comments:

Notes: [49] LHR SEGMENT - Hazardous Material DOT Explosive Approval Number
 SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.
 [50] LHR SEGMENT - HAZMAT - DoD Identification Code (DoDIC)
 SEGMENT CONDITION: Required if the HAZMAT shipment contains ammunition.
 (Map from N9 segment, position 100 in 858R transaction.)
 [51] LHR SEGMENT - Competent Authority Approval Number
 SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.
 [52] LHR SEGMENT - DOT Exemption (DOT-E) Number
 SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.
 [53] LHR SEGMENT - Int'n Maritime Dangerous Goods Code
 SEGMENT CONDITION: Use this segment if the HAZMAT shipment requires international regulation.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LHR01	128	Reference Identification Qualifier Code qualifying the Reference Identification [49-01] HAZMAT - DOT Explosive Approval Number Qualifier [50-01] HAZMAT - DoD Identification Code (DoDIC) Qualifier Required if the HAZMAT shipment contains ammunition. Code value should be read as 'one eye'. [51-01] Competent Authority Approval Number Qualifier [52-01] DOT Exemption (DOT-E) Number Qualifier [53-01] HAZMAT - Int'n Maritime Dangerous Goods Code (IMDG) Qualifier	M 1 ID 2/3
M	LHR02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [49-02] HAZMAT - DOT Explosive Approval Number (EX-number) Product codes and national stock numbers must be traceable to the specific EX-number (also referred to as hazard classification approval number) assigned by the Associate Administrator for Hazardous Materials Safety. Reference 49 CFR 172.320 and 173.56(b). [50-02] HAZMAT - DoD Identification Code (DoDIC) Mandatory for all ammunition and explosives. Also called Navy Ammunition Logistics Code (NALC).	M 1 AN 1/30

[51-02] Competent Authority Approval Number
Issued by Department of Transportation, approval number is CA
-YYNNNNA, where Y = year, N = approval number within that year, and
A is an optional alphanumeric designator. Only applicable when DoD
requires an exception to the international performance oriented packaging
rules.

[52-02] DOT Exemption (DOT-E) Number
Identifies the DOT Exemption to any of the 49 CFR Regulations for
HAZMAT materials. Normally used only for domestic shipments. Can be
used for international shipments but is not guaranteed to be accepted by
international customs. Reference 49 CFR 172.2(a).

[53-02] HAZMAT - Int'n Maritime Dangerous Goods Code (IMDG)

LHR03 373 Date O 1 DT 8/8

Date expressed as CCYYMMDD where CC represents the first two digits
of the calendar year

[49-03] Date

Segment: **PER** Administrative Communications Contact
Position: 7550
Loop: LH1 Optional
Level:
Usage: Optional
Max Use: 5
Purpose: To identify a person or office to whom administrative communications should be directed

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes: [54] PER SEGMENT - Canadian Shipment Contact
 SEGMENT CONDITION: Required for all HAZMAT shipments.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	PER01	366	Contact Function Code	M 1 ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			[54-01] Contact Function Code	
X	PER02	93	Name	O 1 AN 1/60
			Free-form name	
>>	PER03	365	Communication Number Qualifier	X 1 ID 2/2
			Code identifying the type of communication number	
			[54-03] Communication Number Qualifier	
>>	PER04	364	Communication Number	X 1 AN 1/80
			Complete communications number including country or area code when applicable	
			[54-04] Communication Number	
			The words "24 hour number" must appear before the telephone number for Canadian shipments only.	
X	PER05	365	Communication Number Qualifier	X 1 ID 2/2
			Code identifying the type of communication number	
			Refer to 005030 Data Element Dictionary for acceptable code values.	
X	PER06	364	Communication Number	X 1 AN 1/80
			Complete communications number including country or area code when applicable	
X	PER07	365	Communication Number Qualifier	X 1 ID 2/2
			Code identifying the type of communication number	
			Refer to 005030 Data Element Dictionary for acceptable code values.	

Segment: **LE** Loop Trailer
Position: 7600
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To indicate that the loop immediately preceding this segment is complete
Syntax Notes:
Semantic Notes: 1 One loop may be nested contained within another loop, provided the inner nested loop terminates before the other loop. When specified by the standards setting body as mandatory, this segment in combination with "LS", must be used. It is not to be used if not specifically set forth for use. The loop identifier in the loop header and trailer must be identical. The value for the identifier is the loop ID of the required loop beginning segment. The loop ID number is given on the transaction set diagram in the appropriate ASC X12 version/release.
Comments: 1 See Figures Appendix for an explanation of the use of the LE and LS segments.
Notes: [55] LE SEGMENT - Loop Trailer
 SEGMENT CONDITION: Use this segment if LS segment is used.

Data Element Summary

Ref.	Data		Attributes
	Des.	Element Name	
M	LE01	447 Loop Identifier Code	M 1 AN 1/6
The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE [55-01 Loop Identifier Code Use same value as LS01.			

Segment: **PER** Administrative Communications Contact
Position: 7700
Loop:
Level:
Usage: Optional
Max Use: 5
Purpose: To identify a person or office to whom administrative communications should be directed

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

[56] PER SEGMENT - Shipment Contact
 SEGMENT CONDITION: Use only for HAZMAT shipments with single point of contact. Do not use if shipment is to Canada; use Canadian Shipment Contact PER Segment.
 [57] PER SEGMENT - Canadian Shipment Contact
 SEGMENT CONDITION: Use if shipment is to Canada and is HAZMAT. For Canadian shipments - no phone extensions are allowed - the number must be a direct line.
 [58] PER SEGMENT Emergency SDDC Contact
 SEGMENT CONDITION: Use only if shipment contains multiple HAZMAT commodities with different emergency contacts. For Canadian shipments - no phone extensions are allowed - the number must be a direct line.

Data Element Summary

Ref.	Data	Data		Attributes
		Element	Name	
M	PER01	366	Contact Function Code	M 1 ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			[56-01] Shipment Contact Qualifier If shipment is to Canada and HAZMAT, use additional PER segment for additional Canadian HAZMAT contact.	
			[57-01] Canadian Shipment Contact Qualifier Use code value 'CN' to denote Canadian Contact.	
			[58-01] Emergency Contact Qualifier Use code value 'EF' to denote Emergency Contact - Military Surface Deployment and Distribution Command (SDDC) (Formerly MTMC)	
X	PER02	93	Name	O 1 AN 1/60
			Free-form name	
>>	PER03	365	Communication Number Qualifier	X 1 ID 2/2
			Code identifying the type of communication number	
			[56-03] Communications Qualifier	
			[57-03] Canadian Communications Qualifier	
			[58-03] Communication Qualifier	

>>	PER04	364	Communication Number	X	1	AN 1/80
			Complete communications number including country or area code when applicable			
			[56-04] Shipment Contact Telephone Number Telephone number of shipment POC.			
			[57-04] Canadian Shipment Contact Telephone Number Telephone number of shipment POC.			
			[58-04] Emergency Contact Telephone Number			
X	PER05	365	Communication Number Qualifier	X	1	ID 2/2
			Code identifying the type of communication number Refer to 005030 Data Element Dictionary for acceptable code values.			
X	PER06	364	Communication Number	X	1	AN 1/80
			Complete communications number including country or area code when applicable			
X	PER07	365	Communication Number Qualifier	X	1	ID 2/2
			Code identifying the type of communication number Refer to 005030 Data Element Dictionary for acceptable code values.			
X	PER08	364	Communication Number	X	1	AN 1/80
			Complete communications number including country or area code when applicable			

Segment: **LH6** Hazardous Certification

Position: 8000

Loop:

Level:

Usage: Optional

Max Use: 5

Purpose: To specify the name of the person certifying that the shipment complies with the regulations and/or the actual certification

Syntax Notes: 1 If either LH602 or LH603 is present, then the other is required.

Semantic Notes:

Comments:

Notes: [59] LH6 SEGMENT - Hazardous Certification
SEGMENT CONDITION: Use only for HAZMAT shipments.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
>>	<u>Des.</u> LH601	<u>Element</u> 93 Name	O 1 AN 1/60
		Free-form name	
		[59=01] HAZMAT - Certifying Person (49 CFR Compliance) If unknown enter 'Transportation Officer'.	

Segment: **SE** Transaction Set Trailer
Position: 8400
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Notes: [60] SE SEGMENT - Rail Carrier Information Trailer

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments M 1 N0 1/10 Total number of segments included in a transaction set including ST and SE segments [60-01] Number of Included Segments Total segments in this transaction set including the ST and SE segments.
M	SE02	329	Transaction Set Control Number M 1 AN 4/9 Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set [60-02] Transaction Set Control Number This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.

Section 4.0

IC ELEMENT MATRIX

OVERVIEW

In order to implement an EDI transaction set, trading partners need to identify the application data elements they plan to exchange, identify where they plan to carry the data within the structure of the EDI transaction (a task commonly called mapping), identify any additional X12 data such as qualifier codes, and publish that information in an implementation convention (IC). This section contains an IC element matrix that lists that information.

PURPOSE

Using the IC element matrix will expedite mapping of an application database into a commercial EDI translation package. This IC element matrix applies to a specific application database, which is described in the Application Notes section below.

HOW TO READ THE IC ELEMENT MATRIX

To read the matrix, trading partners need to understand matrix record types, two categories of matrix information, the matrix layout, and the sort order of the matrix.

Record Types

The matrix contains two types of records: segment header records and element records.

- Segment header records begin the description of a segment. Each segment header record starts the description of a discrete occurrence of an X12 segment. The element records (see below) that follow a segment header record cannot be co-mingled with elements from other segments, including those segments with matching IDs.
- Element records identify an individual data element that occurs within a segment. Each element satisfies either an application requirement or X12 standard syntax. If one element in a segment is passed, all elements in the segment need to be passed in accordance with the IC requirement designator.

Two Categories of Record Information

The matrix contains two categories of information: IC application information and ASC X12 information.

- IC application information describes attributes outside the structure and syntax of the ASC X12 standard.
- ASC X12 information is attached to each IC element. That information is extracted directly from the X12 standard dictionary and enables programmers to map the IC element into the standards.

Matrix Layout

The IC element matrix lists information in sixteen columns.

- IC Index Number (Index) enables designers and programmers to quickly cite a record in the matrix.
- IC Data Group Number (DG) is a number assigned by the IC developers. That number identifies an IC element with a group of elements that form a database table within the application data model. In order to quickly reference a table, Defense transportation developers label database tables with a Data Group number. For example, a “Bill To Address” may belong to the “PURCHASE ORDER” parent table with GRP = 10. A “Stop-off Delivery Address” may belong to the “ITEM DELIVERY” child table with GRP = 60.
- IC Data Element Name (Data Name) is a label for each data element using terminology common to the business environment. The IC element matrix identifies an element as a “Route Order Number Qualifier.” This is more concise than using the generic X12 label of “Qualifier.” A segment header record identifies the segment ID in this field.
- IC Notes & Codes (DoD Information Notes and Codes) can contain application notes about various segment and element conditions or requirements. This column may also list both X12 standard codes and DoD unique codes. If the list is larger than 20 codes, it may appear in the section that contains Code Lists.
- IC Attributes (Attributes). When part of a segment header record, this column indicates the usage of the segment. When part of an element record, this column indicates the usage of the element within the segment, if the segment is used. Attributes may differ from those in the ASC X12 standard. For example, if trading partners expect to exchange a purchase order number that has a specific length and structure, those attributes are described here. Attributes include requirement designator, data element type, minimum length and maximum length.
- X12 Transaction Set Table Number (Tabl).
- X12 Segment Position (Pos).
- X12 Requirement Designator (Req Des) . This column applies only to Segment Header type matrix records.
- X12 Maximum Usage (Max Use). This column applies only to Segment Header type matrix records.
- X12 Loop Repeat (Lp Rpt) indicates the number of times a loop may be used. This column applies only to Segment Header type matrix records.
- X12 Loop Level (Lp Lv). Loops may be nested within other loops. This column indicates the nesting level for each loop and applies only to Segment Header type matrix records.
- X12 Loop ID (Lp ID). This column applies only to Segment Header type matrix records.
- X12 Segment Reference Designator (Ref Des) . This column applies only to Element type matrix records.
- X12 Simple or Composite Data Element Number (DE#). This column applies only to Element type matrix records.

- X12 Simple Data Element Attributes (Attributes). Attributes listed include the data element requirement designator, data element type, minimum length and maximum length. This column applies only to Element type matrix records.
- X12 Composite Data Element Attributes ((Composite) Attributes) . Attributes listed include the simple data element number, requirement designator, data element type, minimum length and maximum length. This column applies only to Element type matrix records.

Sort Order of the Matrix

The matrix presents IC elements in an order that enables programmers to generate application-to-translator interface files (also known as user-defined files or UDFs) that are syntactically correct to ASC X12 standards. IC elements are grouped under segment header records. When exchanging an IC element, the programmer needs to generate the entire segment under which the element is listed. Likewise, when exchanging a segment, the programmer needs to generate the entire loop structure to which the segment belongs.

APPLICATION NOTES

The IC element matrix in this section maps data requirements for the bill of lading into the ASC X12 Transaction Set 404 Rail Carrier Shipment Information. These requirements were developed by transportation activities involved in the DoD electronic data interchange effort.

This IC includes all changes approved by the DTEDI Committee and described in DTEDI data maintenance (DM) items up to the publication date of the IC.

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DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION		
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes
1		ST SEGMENT - Rail Carrier Information Header		M	1	0100	M	1						
1-01		Transaction Set Identifier Code 404 - Rail Carrier Shipment Information		M ID 3/3	1	0100	M	1				ST01	143	M ID 3/3
1-02		Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)		M AN 4/9	1	0100	M	1				ST02	329	M AN 4/9
2		BX SEGMENT - General Shipment Information		M	1	0300	O	1						
2-01		Transaction Set Purpose Code Rails cannot accept code value '04' indicating 'Change' after lift. 00 - Original		M ID 2/2	1	0300	O	1				BX01	353	M ID 2/2
2-02		Transportation Method/Type Code R - Rail X - Intermodal (Piggyback) Use X when Primary Equipment Description Code, N711, position 100, contains code value 'CN' or code value 'TL'.		M ID 1/1	1	0300	O	1				BX02	91	M ID 1/2
2-03		Shipment Method of Payment PP - Prepaid (by Seller)		M ID 2/2	1	0300	O	1				BX03	146	M ID 2/2
2-05		Standard Carrier Alpha Code Use SCAC of origin carrier. SCAC should be validated against the National Motor Freight Transportation Association (NMFTA) SCAC reference file.		M ID 2/4	1	0300	O	1				BX05	140	O ID 2/4
2-06		Weight Unit Code This element qualifies all weights in the transaction set. L - Pounds		M ID 1/1	1	0300	O	1				BX06	188	O ID 1/1
2-07		Shipment Qualifier B - Bill of Lading for Individual Shipment E - Empty Equipment Billing (Non-Revenue)		M ID 1/1	1	0300	O	1				BX07	147	O ID 1/1
2-11		Customs Documentation Handling Code Required for all shipments to/from Canada.		C ID 2/2	1	0300	O	1				BX11	501	O ID 2/2

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DoD INFORMATION						X12 SEGMENT INFORMATION						X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes
2-13		Goods and Services Tax Reason Code		C	ID	1/1	1	0300	O	1			BX13	714	O ID 1/1
Required for all shipments to/from Canada. 1 - Inbound Goods and Services Tax Declaration <i>Use 1 for inbound shipments..</i> 2 - Outbound Goods and Services Tax Declaration <i>Use 2 for outbound shipments.</i>															
3		BNX SEGMENT - Rail Shipment Information		C			1	0400	O	1					
SEGMENT CONDITION: BNX segment is mandatory for loaded revenue shipments.															
3-01		Shipment Weight Code		M	ID	1/1	1	0400	O	1			BNX01	460	O ID 1/1
A - Shipper's Weight Agreement															
3-03		Billing Code		M	ID	1/1	1	0400	O	1			BNX03	11	O ID 1/1
S - Single Shipment Billing															
4		M3 SEGMENT - Date/Time of 404 Creation and Release Code		M			1	0500	M	1					
Use this segment to indicate whether the equipment is or is not to be released. See X12 Standards for explanation of syntax notes. R0203C0403															
4-01		Release Code		M	ID	1/1	1	0500	M	1			M301	132	M ID 1/1
R - Released with Billing Data															
4-02		Date 404 Prepared		M	DT	8/8	1	0500	M	1			M302	373	C DT 8/8
This is the date that the 404 transaction is generated.															
4-03		Time 404 Prepared		M	TM	4/8	1	0500	M	1			M303	337	C TM 4/8
This is the time that the 404 transaction is generated.															
4-04		Time Code		M	ID	2/2	1	0500	M	1			M304	623	O ID 2/2
ET - Eastern Time															
5		N9 SEGMENT - Bill of Lading Prepared Date		M			1	0600	M	30					
Data from GS202, position 110, 'Date Bill of Lading/Shipping Instruction Prepared Date' of 858R IC. See X12 Standards for explanation of syntax notes. R0203C0605															
5-01		B/L Qualifier		M	ID	2/2	1	0600	M	30			N901	128	M ID 2/3
BM - Bill of Lading Number															
5-02		Bill of Lading Number		M	AN	1/30	1	0600	M	30			N902	127	C AN 1/80
Enter bill of lading number here.															
5-04		Bill of Lading Prepared Date		M	DT	8/8	1	0600	M	30			N904	373	O DT 8/8
This is the date the shipper creates the bill of lading.															

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Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
5-05		Time		M	TM 4/8	1	0600	M	30				N905	337	C	TM 4/8	
		This is the time that the 404 transaction is generated.															
5-06		Time Code		M	ID 2/2	1	0600	M	30				N906	623	O	ID 2/2	
		ET - Eastern Time															
6		DTM SEGMENT - Desired/Required Delivery			M		1	0900	O	5							
													See X12 Standards for explanation of syntax notes. R020305C0403P0506				
6-01		Desired/Required Delivery Date Qualifier		M	ID 3/3	1	0900	O	5				DTM01	374	M	ID 3/3	
		002 - Delivery Requested Use 002 to denote Required Delivery Date. 017 - Estimated Delivery Use 017 to denote Deliver on this Date.															
6-02		Desired/Required Delivery Date		M	DT 8/8	1	0900	O	5				DTM02	373	C	DT 8/8	
7		DTM SEGMENT - Carrier's Pickup			C		1	0900	O	5							
		SEGMENT CONDITION: Use when date rail carriers are to pick up rail cars applies.											See X12 Standards for explanation of syntax notes. R020305C0403P0506				
7-01		Carrier's Pickup Date Qualifier		M	ID 3/3	1	0900	O	5				DTM01	374	M	ID 3/3	
		SDDC will accept only code value '86' from shippers. Convert code value '86' from 858R IC, G6201 segment, position 110, to code value '196', 196 - Start Use 196 to denote Actual Pickup Date.															
7-02		Carrier's Pickup Date		M	DT 8/8	1	0900	O	5				DTM02	373	C	DT 8/8	
		This is the date rail carriers are to pick up rail cars. Note: The release date is the estimated pickup date and not the date the 404 was generated.															
8		N7 SEGMENT - Primary Equipment Details			M		1	1000	M	1	500	1	N7				
		Use this loop to describe the equipment in/on which the commodity is carried. See development notes for examples of this loop. If shipment is intermodal, N7 segment refers to trailer/container; not the rail car.											See X12 Standards for explanation of syntax notes. P0304P0516P0809				
8-01		Primary Equipment Initial		M	AN 1/4	1	1000	M	1	500	1	N7	N701	206	O	AN 1/4	
8-02		Primary Equipment Number		M	AN 1/10	1	1000	M	1	500	1	N7	N702	207	M	AN 1/15	
8-03		Weight		M	R 1/10	1	1000	M	1	500	1	N7	N703	81	C	R 1/10	
		This is the net weight of entire shipment. If conveyance (railcar, trailer, or container) contains multiple line items, this is the total of all line items, including dunnage weight. For idler cars, enter value zero (0). (This N703 should match the sum of the weight values in all elements L004 for this transaction.)															

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Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes			
8-04		Weight Qualifier		M	ID	1/2	1	1000	M	1	500	1	N7	N704	187	C	ID	1/2
		N - Actual Net Weight <i>Use N to denote Net Weight.</i>																
8-11		Primary Equipment Description Code		M	ID	2/2	1	1000	M	1	500	1	N7	N711	40	O	ID	2/2
		Code identifying type of equipment used for shipment. CN - Container ID - Idler Car RR - Rail Car TL - Trailer (not otherwise specified)																
8-15		Primary Equipment Length		C	NO	4/5	1	1000	M	1	500	1	N7	N715	567	O	NO	4/5
		Outside length; required for intermodal equipment.																
9		M7 SEGMENT - Seal Numbers		C			1	1300	O	5	500	1	N7					
		SEGMENT CONDITION: Include if seals are applied to the primary equipment.																
9-01		Seal Number		M	AN	2/15	1	1300	O	5	500	1	N7	M701	225	M	AN	2/15
		Carry additional seal numbers in M702, M703, and M704.																
9-02		Seal Number		C	AN	2/15	1	1300	O	5	500	1	N7	M702	225	O	AN	2/15
		Use for additional seal numbers.																
9-03		Seal Number		C	AN	2/15	1	1300	O	5	500	1	N7	M703	225	O	AN	2/15
		Use for additional seal numbers.																
9-04		Seal Number		C	AN	2/15	1	1300	O	5	500	1	N7	M704	225	O	AN	2/15
		Use for additional seal numbers.																
10		REF SEGMENT - Intermodal/International Shipments		C			1	1770	O	1	99	2	REF					
		SEGMENT CONDITION: REF loop is required for intermodal/International shipments. See X12 Standards for explanation of syntax notes. R0203																
10-01		Reference Identification Qualifier		M	ID	2/2	1	1770	O	1	99	2	REF	REF01	128	M	ID	2/3
		If code value 'OB' is used, N10 segment is required. OB - Ocean Bill of Lading PN - Permit Number ZZ - Mutually Defined <i>Use ZZ to denote Certificate of Transportation Number.</i>																
10-02		Reference Identification		M	AN	1/30	1	1770	O	1	99	2	REF	REF02	127	C	AN	1/80

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DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
11		N10 SEGMENT - Quantity and Description		C	1	1780	O	15	99	2	REF					
		SEGMENT CONDITION: Use to convey Customs-related information if shipper is manifesting the shipment(s) directly with US Customs. N10 segment required if REF02 = 'OB'.			See X12 Standards for explanation of syntax notes. P0405P0708C1306											
11-01		Quantity		C R 1/15	1	1780	O	15	99	2	REF	N1001	380	O	R	1/15
11-02		Free-form Description		C AN 1/45	1	1780	O	15	99	2	REF	N1002	369	O	AN	1/45
11-03		Marks and Numbers		C AN 1/48	1	1780	O	15	99	2	REF	N1003	87	O	AN	1/48
11-04		Commodity Code Qualifier		C ID 1/1	1	1780	O	15	99	2	REF	N1004	23	C	ID	1/1
		Required if N1005 is used. J - Harmonized System-Based Schedule B														
11-05		Commodity Code		C AN 1/30	1	1780	O	15	99	2	REF	N1005	22	C	AN	1/30
11-06		Customs Shipment Value		C AN 2/8	1	1780	O	15	99	2	REF	N1006	602	C	AN	2/8
11-07		Weight Unit Code		C ID 1/1	1	1780	O	15	99	2	REF	N1007	188	C	ID	1/1
		Required if N1008 is used. L - Pounds														
11-08		Weight		C R 1/10	1	1780	O	15	99	2	REF	N1008	81	C	R	1/10
11-09		Reference Identification		C AN 1/30	1	1780	O	15	99	2	REF	N1009	127	O	AN	1/80
11-10		Manifest Unit Code		C ID 1/3	1	1780	O	15	99	2	REF	N1010	599	O	ID	1/3
		Use applicable code value from ASC X12 DE 599.														
11-11		Country Code		C ID 2/3	1	1780	O	15	99	2	REF	N1011	26	O	ID	2/3
		Country of origin of goods. Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from: American National Standards Institute 11 West 42nd Street, 13 Floor New York, NY 10036.														
11-12		Country Code		C ID 2/3	1	1780	O	15	99	2	REF	N1012	26	O	ID	2/3
		Country of final destination of the goods. Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from: American National Standards Institute 11 West 42nd Street, 13 Floor New York, NY 10036.														

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DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION					
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes			
11-13		Currency Code		C ID 3/3	1	1780	O	15	99	2	REF	N1013	100	O	ID	3/3	
Currency code values from the ISO 4217 table may be found on the web at: http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html .																	
12		NA SEGMENT - Cross-Reference Equipment (Secondary)		C	1	1850	O	10						See X12 Standards for explanation of syntax notes. C0102			
SEGMENT CONDITION: Used to identify equipment in addition to the primary equipment. Flat car from TOFC/COFC. If shipment is intermodal, NA segment refers to the rail car, not a trailer/container.																	
12-03		Secondary Equipment Initial		M AN 1/4	1	1850	O	10				NA03	206	M	AN	1/4	
12-04		Secondary Equipment Number		M AN 1/10	1	1850	O	10				NA04	207	M	AN	1/15	
12-05		Cross Reference Type Code		M ID 1/1	1	1850	O	10				NA05	231	O	ID	1/1	
F - Conveying Flat Car																	
13		NA SEGMENT - Container		C	1	1850	O	10						See X12 Standards for explanation of syntax notes. C0102			
SEGMENT CONDITION: Segment required when shipment employs a container. CHANGE NOTE: Requirement attribute corrected and segment condition note added per DM 824.																	
13-03		Container Initials		M AN 1/4	1	1850	O	10				NA03	206	M	AN	1/4	
Put in initials.																	
13-04		Container Serial Number		M AN 1/10	1	1850	O	10				NA04	207	M	AN	1/15	
13-05		Cross Reference Type Code		M ID 1/1	1	1850	O	10				NA05	231	O	ID	1/1	
T - Trailer																	
14		F9 SEGMENT - Origin Station		M	1	1900	M	1									
If F9 data is provided from the rail carrier's tender submitted via Tender Entry on the Web (TEOW) (e.g., 602 GY), F902 and F903 will map directly to the 404. If not, the N1~SF, city and state, will be mapped to F902 and F903. Mandatory for Rail.																	
14-02		City Name		M AN 2/19	1	1900	M	1				F902	19	M	AN	2/30	
14-03		State or Province Code		M ID 2/2	1	1900	M	1				F903	156	M	ID	2/2	
Also use for province if shipment is Canadian.																	
14-08		Standard Point Location Code		C ID 9/9	1	1900	M	1				F908	154	O	ID	6/9	
Official code assigned to a city or point (for rate making purposes) within a city. CHANGE NOTE: Type attribute corrected per DM 800.																	

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DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes	
15		D9 SEGMENT - Destination Station		M	1	2000	M	1							
		If D9 data is provided from the rail carrier's tender submitted via Tender Entry on the Web (TEOW) (e.g., 602 GY), D902 and D903 will map directly to the 404. If not, the N1-ST, city and state, will be mapped to D902 and D903. Mandatory for Rail.													
15-02		City Name		M AN 2/19	1	2000	M	1				D902	19	M AN	2/30
15-03		State or Province Code		M ID 2/2	1	2000	M	1				D903	156	M ID	2/2
		Also use for province if shipment is Canadian.													
15-08		Standard Point Location Code		C ID 9/9	1	2000	M	1				D908	154	O ID	6/9
		CHANGE NOTE: Type attribute corrected per DM 800.													
16		N1 SEGMENT - Destination (C1)		M	1	2100	M	1	15	1	N1				
		Use segment to convey carrier's delivery location information.												See X12 Standards for explanation of syntax notes. R0203P0304	
16-01		Destination Name (C1) Qualifier		M ID 2/2	1	2100	M	1	15	1	N1	N101	98	M ID	2/3
		This qualifier identifies name and address information of the carrier's delivery location. Government will convert code value 'ST' to code value 'C1'. C1 - In Care Of Party no. 1													
16-02		Destination Name (C1)		M AN 1/30	1	2100	M	1	15	1	N1	N102	93	C AN	1/60
		Enter value 'US Government' unless shipment is to/from a US Government contractor.													
17		N3 SEGMENT - Destination (C1)		C	1	2200	O	2	15	1	N1				
		SEGMENT CONDITION: Use when destination address information applies.													
17-01		Street (C1)		M AN 1/30	1	2200	O	2	15	1	N1	N301	166	M AN	1/55
17-02		Street (C1)		C AN 1/55	1	2200	O	2	15	1	N1	N302	166	O AN	1/55
		Use for additional street address information.													
18		N4 SEGMENT - Destination (C1)		M	1	2300	O	1	15	1	N1				
		See X12 Standards for explanation of syntax notes. E0207C0605C0704													
18-01		City (C1)		M AN 2/19	1	2300	O	1	15	1	N1	N401	19	O AN	2/30
18-02		Province or State Code (C1)		M ID 2/2	1	2300	O	1	15	1	N1	N402	156	C ID	2/2
		If shipment is Canadian, use for province.													
18-03		ZIP/Postal Code (C1)		M ID 3/15	1	2300	O	1	15	1	N1	N403	116	O ID	3/15

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18-04		Country Code (C1)		C ID 2/3	1	2300	O	1	15	1	N1	N404	26	C	ID	2/3
<p>If destination is OCONUS, ISO country code is required.</p> <p>Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from: American National Standards Institute 11 West 42nd Street, 13 Floor New York, NY 10036.</p>																
18-05		Destination SPLC (C1) Qualifier		M ID 2/2	1	2300	O	1	15	1	N1	N405	309	C	ID	1/2
<p>CS - Canadian SPLC SL - U.S. SPLC</p>																
18-06		Destination SPLC (C1)		M AN 9/9	1	2300	O	1	15	1	N1	N406	310	O	AN	1/30
<p>Nine-digit SPLC is required for costing. CHANGE NOTE: Type attribute corrected per DM 800.</p>																
19		PER SEGMENT - Destination (C1)		C	1	2400	O	2	15	1	N1					
<p>SEGMENT CONDITION: Use for Canadian shipments - no phone extensions are allowed - the number must be a direct line. See X12 Standards for explanation of syntax notes. P0304P0506P0708</p>																
19-01		Contact Function Code		M ID 2/2	1	2400	O	2	15	1	N1	PER01	366	M	ID	2/2
<p>NT - Notification Contact</p>																
19-02		Contact Name		M AN 1/30	1	2400	O	2	15	1	N1	PER02	93	O	AN	1/60
<p>If none provided, enter value 'TRANSPORTATION OFFICER'.</p>																
19-03		Telephone Number Qualifier		M ID 2/2	1	2400	O	2	15	1	N1	PER03	365	C	ID	2/2
<p>TE - Telephone</p>																
19-04		Telephone Number		M AN 7/21	1	2400	O	2	15	1	N1	PER04	364	C	AN	1/256
20		N1 SEGMENT - Origin (SF)		M	1	2100	M	1	15	1	N1					
<p>Use segment to convey carrier's pickup location information. See X12 Standards for explanation of syntax notes. R0203P0304</p>																
20-01		Origin Name (SF) Qualifier		M ID 2/2	1	2100	M	1	15	1	N1	N101	98	M	ID	2/3
<p>This qualifier identifies the name and address information of the carrier's pickup location. SF - Ship From</p>																
20-02		Origin Name (SF)		M AN 1/30	1	2100	M	1	15	1	N1	N102	93	C	AN	1/60
<p>Enter value 'US Government' unless shipment is to/from a US Government contractor.</p>																

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21		N3 SEGMENT - Origin (SF)		C	1	2200	O	2	15	1	N1					
		SEGMENT CONDITION: Use when pick-up street address information applies.														
21-01		Street (SF)		M AN 1/30	1	2200	O	2	15	1	N1	N301	166	M	AN	1/55
21-02		Street (SF)		C AN 1/55	1	2200	O	2	15	1	N1	N302	166	O	AN	1/55
		Use for additional street address information.														
22		N4 SEGMENT - Origin (SF)		M	1	2300	O	1	15	1	N1					
		See X12 Standards for explanation of syntax notes. E0207C0605C0704														
22-01		City (SF)		M AN 2/19	1	2300	O	1	15	1	N1	N401	19	O	AN	2/30
22-02		Province or State (SF)		M ID 2/2	1	2300	O	1	15	1	N1	N402	156	C	ID	2/2
		If shipment is Canadian, use for province.														
22-03		ZIP/Postal Code (SF)		M ID 3/15	1	2300	O	1	15	1	N1	N403	116	O	ID	3/15
22-04		Country Code (SF)		C ID 2/3	1	2300	O	1	15	1	N1	N404	26	C	ID	2/3
		If origin is OCONUS, ISO country code is required.														
22-05		Shipping Point SPLC (SF) Qualifier		M ID 2/2	1	2300	O	1	15	1	N1	N405	309	C	ID	1/2
		CS - Canadian SPLC SL - U.S. SPLC														
22-06		Shipping Point SPLC (SF)		M AN 9/9	1	2300	O	1	15	1	N1	N406	310	O	AN	1/30
		Nine-digit SPLC is required for costing. CHANGE NOTE: Type attribute corrected per DM 800.														
23		N1 SEGMENT - Consignee (CN)		M	1	2100	M	1	15	1	N1					
		Use segment to identify the installation transportation office responsible for the shipment at the final destination. See X12 Standards for explanation of syntax notes. R0203P0304														
23-01		Consignee (CN) Name Qualifier		M ID 2/2	1	2100	M	1	15	1	N1	N101	98	M	ID	2/3
		This qualifier identifies the installation transportation office responsible for the shipment at the final destination. CN - Consignee														
23-02		Consignee (CN) Name		M AN 13/13	1	2100	M	1	15	1	N1	N102	93	C	AN	1/60
		Enter value 'US Government'.														
24		N3 SEGMENT - Consignee (CN)		C	1	2200	O	2	15	1	N1					
		SEGMENT CONDITION: Use when street address for installation transportation office responsible for the shipment at the final destination applies.														
24-01		Street (CN)		M AN 1/30	1	2200	O	2	15	1	N1	N301	166	M	AN	1/55

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24-02		Street (CN) Use for additional street address information.		C AN 1/55	1	2200	O	2	15	1	N1	N302	166	O	AN	1/55
25		N4 SEGMENT - Consignee (CN) SEGMENT CONDITION: Use when city, state, and ZIP code, or country code for installation transportation office responsible for the shipment at the final destination applies.		C	1	2300	O	1	15	1	N1	See X12 Standards for explanation of syntax notes. E0207C0605C0704				
25-01		City (CN)		M AN 2/19	1	2300	O	1	15	1	N1	N401	19	O	AN	2/30
25-02		State (CN) Also use for province if shipment is Canadian.		M ID 2/2	1	2300	O	1	15	1	N1	N402	156	C	ID	2/2
25-03		ZIP/Postal Code (CN)		M ID 3/15	1	2300	O	1	15	1	N1	N403	116	O	ID	3/15
25-04		Country Code (CN) If consignee is OCONUS, country code is required.		C ID 2/3	1	2300	O	1	15	1	N1	N404	26	C	ID	2/3
26		N1 SEGMENT - Shipper (SH) Use segment to convey installation transportation office responsible for the shipment at origin information.		M	1	2100	M	1	15	1	N1	See X12 Standards for explanation of syntax notes. R0203P0304				
26-01		Shipper (SH) Qualifier This qualifier identifies the installation transportation office responsible for the shipment at origin. SH - Shipper		M ID 2/2	1	2100	M	1	15	1	N1	N101	98	M	ID	2/3
26-02		Shipper Name (SH) Enter value 'US Government'.		M AN 13/13	1	2100	M	1	15	1	N1	N102	93	C	AN	1/60
27		N3 SEGMENT - Shipper (SH) SEGMENT CONDITION: Use when street address for installation transportation office responsible for the shipment at origin applies.		C	1	2200	O	2	15	1	N1					
27-01		Street (SH)		M AN 1/30	1	2200	O	2	15	1	N1	N301	166	M	AN	1/55
27-02		Additional Street (SH)		C AN 1/55	1	2200	O	2	15	1	N1	N302	166	O	AN	1/55
28		N4 SEGMENT - Shipper (SH) SEGMENT CONDITION: Use when city, state, and ZIP code, or country code for installation transportation office responsible for the shipment at origin applies.		C	1	2300	O	1	15	1	N1	See X12 Standards for explanation of syntax notes. E0207C0605C0704				
28-01		City (SH)		M AN 2/19	1	2300	O	1	15	1	N1	N401	19	O	AN	2/30
28-02		State Code (SH) Also use for province if shipment is Canadian.		M ID 2/2	1	2300	O	1	15	1	N1	N402	156	C	ID	2/2
28-03		ZIP/Postal Code (SH)		M ID 3/15	1	2300	O	1	15	1	N1	N403	116	O	ID	3/15
28-04		Country Code (SH)		C ID 2/3	1	2300	O	1	15	1	N1	N404	26	C	ID	2/3

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29		N1 SEGMENT - Bill Charges To (PF)		M	1	2100	M	1	15	1	N1	See X12 Standards for explanation of syntax notes. R0203P0304				
		Provide the full address in the N3 and N4 segments to accommodate trading partners that cannot identify activities by DoDAAC/CAGE/MAPAC.														
29-01		Bill Charges To (PF) Qualifier		M	ID	2/2						N101	98	M	ID	2/3
		Government will convert code value 'PO' to code value 'PF'. PF - Party to Receive Freight Bill														
29-02		Bill Charges To (PF)		M	AN	6/6						N102	93	C	AN	1/60
		US Bank														
30		N3 SEGMENT - Bill Charges To (PF)		M												
30-01		Street Address (PF)		M	AN	1/30						N301	166	M	AN	1/55
31		N4 SEGMENT - Bill Charges To (PF)		M								See X12 Standards for explanation of syntax notes. E0207C0605C0704				
31-01		City (PF)		M	AN	2/19						N401	19	O	AN	2/30
31-02		State Code (PF)		M	ID	2/2						N402	156	C	ID	2/2
31-03		ZIP/Postal Code (PF)		M	ID	3/15						N403	116	O	ID	3/15
32		N1 SEGMENT - Customs Broker (CB)		C								See X12 Standards for explanation of syntax notes. R0203P0304				
		SEGMENT CONDITION: Required for all shipments to/from Canada.														
32-01		Customs Broker Identifier (CB) Qualifier		M	ID	2/2						N101	98	M	ID	2/3
32-02		Customs Broker Name (CB)		M	AN	1/30						N102	93	C	AN	1/60
33		N3 SEGMENT - Customs Broker (CB)		C								See X12 Standards for explanation of syntax notes. E0207C0605C0704				
		SEGMENT CONDITION: Required for all shipments to/from Canada.														
33-01		Street Address (CB)		M	AN	1/30						N301	166	M	AN	1/55
33-02		Street Address (CB)		C	AN	1/55						N302	166	O	AN	1/55
		Use for additional street address information.														
34		N4 SEGMENT - Customs Broker (CB)		C								See X12 Standards for explanation of syntax notes. E0207C0605C0704				
		SEGMENT CONDITION: Required for all shipments to/from Canada.														
34-01		City (CB)		M	AN	2/19						N401	19	O	AN	2/30
34-02		State or Province Code (CB)		M	ID	2/2						N402	156	C	ID	2/2
34-03		ZIP/Postal Code (CB)		M	ID	3/15						N403	116	O	ID	3/15
34-04		Country Code (CB)		C	ID	2/3						N404	26	C	ID	2/3
34-05		Destination SPLC (CB) Qualifier		M	ID	2/2						N405	309	C	ID	1/2
34-06		Destination SPLC (CB)		M	AN	9/9						N406	310	O	AN	1/30

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35		R2 SEGMENT - Route Via		M	1	4600	M	13								
See X12 Standards for explanation of syntax notes. C0807																
35-01		Standard Carrier Alpha Code - Via (Routing)		M	ID	2/4						R201	140	M	ID	2/4
		SCAC of interline and destination carrier(s) in sequence after origin carrier. The origin carrier should be included in an interline list.														
35-02		Via (Routing) SCAC Qualifier		M	ID	1/2						R202	133	M	ID	1/2
		1 - 1st Carrier after Origin Carrier 2 - 2nd Carrier after Origin Carrier 3 - 3rd Carrier after Origin Carrier 4 - 4th Carrier after Origin Carrier 5 - 5th Carrier after Origin Carrier A - Origin Carrier, Agent's Routing (Rail) D - DELY (Delivery Switch Carrier) I - Origin Switch Carrier R - Origin Carrier, Rule 11 Shipment S - Origin Carrier, Shipper's Routing (Rail) <i>Use S to denote Origin Carrier, Shipper's Routing.</i> V - Intermediate Switch Carrier														
35-03		Interchange Location		C	AN	4/5						R203	19	O	AN	2/30
		Use for all R2s except for the final R2. Interchange is where the carrier in R201 passes the shipment forward to the next carrier. The interchange locations should follow Rule 260.														
35-05		Intermodal Service Code		C	ID	1/2						R205	177	O	ID	1/2
		Use for intermodal shipments. If BX02 = 'X' and N711 = 'CN' or 'TL', then R205 is required. Use the following values as indicated: 20 - Rail Owned Equipment 60 - Privately Owned Cars														

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36		H3 SEGMENT - Accessorial/Protective Service		C	1	5200	O	20						
SEGMENT CONDITION: Use when Accessorial/Protective Service applies.					See X12 Standards for explanation of syntax notes. E0102									
36-01		Accessorial/Protective Service Code		M ID 3/3	1	5200	O	20				H301	152	C ID 2/3
Use if shipper orders accessorial services from the carrier. Order accessorial services with this data element. To order accessorial services, the carrier industry requires the use of the H3 segment.														
{See Section 6.0 (Rail Carrier Shipment Information Implementation Convention) for the valid code list.														
To find Section 6.0 on the web, go to https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010														
[Instructions: At that web location sign in as Guest and select the 404A IC.]														
37		PS SEGMENT - Heater/Refrigerated Temperature Control		C	1	5300	O	5						
SEGMENT CONDITION: Use only for Heater/refrigerator service, i.e., use this segment when H301 contains 'HRS' (Heater/Refrigerator Service).					See X12 Standards for explanation of syntax notes. L030414C0403C1403									
37-01		Rail Service Rule Code		M ID 3/3	1	5300	O	5				PS01	746	M ID 3/9
See Section 6.0 (Rail Carrier Shipment Information Implementation Convention) for the valid code list.														
{To find Section 6.0 on the web, go to https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010														
[Instructions: At that web location sign in as Guest and select the 404A IC.]														
37-02		Protective Service Code		M ID 1/1	1	5300	O	5				PS02	241	M ID 1/4
M - Standard Mechanical Protective Service														
37-03		Temperature Qualifier		C ID 2/2	1	5300	O	5				PS03	355	C ID 2/2
Required if PS04 is used.														
FA - Fahrenheit														
37-04		Temperature		C R 1/4	1	5300	O	5				PS04	408	C R 1/4
38		LX SEGMENT - Assigned Number		M	1	5400	M	1	25	1	LX			
38-01		Assigned Number		M NO 1/6	1	5400	M	1	25	1	LX	LX01	554	M NO 1/6
No leading zeros.														

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39		L5 SEGMENT - Descriptions, Marks, and Numbers		M	1	5500	M	15	25	1	LX					
					See X12 Standards for explanation of syntax notes. P0304C0706P0809											
39-01		Lading Line Item Number	This number matches L001. No leading zeros.	M NO 1/3	1	5500	M	15	25	1	LX	L501	213	O	NO	1/3
39-02		Lading Description	Clear text description of the line item. No generalized commodity descriptions are allowed. Can not use the verbiage "F.A.K." or "Freight All Kind" as the description of the line item. Any other description is acceptable. When mixed HAZMAT, L502 shall contain corresponding mixed hazardous verbiage. Required for cross-border shipments.	M AN 1/50	1	5500	M	15	25	1	LX	L502	79	O	AN	1/50
39-03		Standard Transportation Commodity Code (STCC)	For cross-border shipments, do not use '4611115'. For 'Freight All Kind' use 4611115 STCC code. If shipment is HAZMAT, field must contain 48/49 series HMRC number. For intermodal traffic, must contain mixed hazardous STCC 495 series HMRC number.	M NO 7/7	1	5500	M	15	25	1	LX	L503	22	C	AN	1/30
39-04		STCC Qualifier	L - Last Contained Contents STCC Use L when shipping empty. T - Standard Transportation Commodity Code (STCC)	M ID 1/1	1	5500	M	15	25	1	LX	L504	23	C	ID	1/1
40		L0 SEGMENT - Line Item (Quantity and Weight)	Sum the lading quantities and weights together for a single commodity with identical packaging types. If a commodity is shipped in multiple packaging types, begin a new L0-Line Item (Quantity and Weight) loop to account for each different packaging type.	M	1	5700	O	1	25	2	L0					
					See X12 Standards for explanation of syntax notes. P0203P0405P0607P0809C1104P1315											
40-01		Lading Line Item Number	Enter sequential line number for a lading item (no leading zeros). Use sequential numbers to identify separate lading items (e.g., '1' for first lading item, '2' for second, etc.). This number matches the value contained in Lading Line Item Number, segment L501, position 550.	M NO 1/3	1	5700	O	1	25	2	L0	L001	213	O	NO	1/3

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40-02		Billed/Rated-as Quantity		C R 1/11	1	5700	O	1	25	2	L0	L002	220	C	R 1/11
<p>Use when rating a shipment on something other than weight.</p> <p>A commodity is a single type of product or material. Transportation of a commodity is usually billed/rated by units of freight weight. A line item on a transportation bill describes a single commodity. The quantity of a line item commodity is described here in the L0 segment in the LX - Assigned Number Loop. One L0 segment occurs for each type pack under the line item. There may be many line items, i.e., L0-Line Item (Quantity and Weight) loops for the same commodity.</p> <p>Two rules must be followed when constructing an L0 segment: 1) If the billed/rated quantity is the weight expressed in pounds, it appears here. Freight weight is the weight that line haul rate is based upon and may include skid, pallet, and dunnage weights, carried in separate MEA segments. The L004, L005, and L011 elements are not used. 2) If the billed/rated quantity is the weight expressed in gallons in the case of tank car shipments or is expressed in Barrels in the case of pipeline shipment, it also appears here. If entry does not contain a decimal, decimal is assumed at right-most point of the field. In addition, the L004, L005, and L011 elements are used to carry the weight information, if required.</p>															
40-03		Billed/Rated-as Qualifier		C ID 2/2	1	5700	O	1	25	2	L0	L003	221	C	ID 2/2
<p>Use when rating a shipment on something other than weight.</p> <p>BA - Barrels GL - Gallon LB - Pound</p>															
40-04		Weight		C R 1/10	1	5700	O	1	25	2	L0	L004	81	C	R 1/10
<p>Use L004 and L005 when the shipment is based on pounds.</p> <p>Freight weight of line item described in pounds only. Freight weight is the weight that line haul rate is based on and may include skid, pallet, and dunnage weights, depending on the applicable tender. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.</p>															
40-05		Weight Qualifier		C ID 2/2	1	5700	O	1	25	2	L0	L005	187	C	ID 1/2
<p>Use L004 and L005 when the shipment is based on pounds.</p> <p>B - Billed Weight</p>															
40-06		Volume		C R 1/8	1	5700	O	1	25	2	L0	L006	183	C	R 1/8
<p>Enter value of volumetric measure. Use L006 and L007 when shipment is based on volume.</p>															

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40-07		Volume Unit Qualifier		C	ID	1/1	1	5700	O	1	25	2	L0	L007	184	C	ID	1/1
		Use L006 and L007 when shipment is based on volume.																
		G - Gallons																
40-08		Lading Quantity		M	NO	1/7	1	5700	O	1	25	2	L0	L008	80	C	NO	1/7
40-09		Packaging Form Code		M	ID	3/3	1	5700	O	1	25	2	L0	L009	211	C	ID	3/3
		See Section 6.0 (Rail Carrier Shipment Information Implementation Convention) for the valid code list.																
		{To find Section 6.0 on the web, go to https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010																
		[Instructions: At that web location sign in as Guest and select the 404A IC.]																
40-11		Weight Unit Code		C	ID	1/1	1	5700	O	1	25	2	L0	L011	188	O	ID	1/1
		Required if L004 is used.																
		L - Pounds																
41		PI SEGMENT - Tender Information		M			1	5900	O	1	30	3	PI					
41-01		Rate Agreement Qualifier		M	ID	2/2	1	5900	O	1	30	3	PI	PI01	128	M	ID	2/3
		CT - Contract Number																
41-02		Tender Number		M	NO	6/6	1	5900	O	1	30	3	PI	PI02	127	M	AN	1/80
		Carry only the six-position numeric value here; the alpha prefix is carried in PI06 and the two-position (suffix) supplement is carried in PI07, as required.																
41-03		Primary Publication Authority Code		M	ID	2/2	1	5900	O	1	30	3	PI	PI03	436	O	ID	2/2
		TP - Tariff Publication																
41-05		Origin Carrier SCAC		M	ID	2/4	1	5900	O	1	30	3	PI	PI05	168	O	ID	1/4
41-06		Tender Alpha Prefix		M	AN	2/4	1	5900	O	1	30	3	PI	PI06	965	O	AN	1/10
		Carry alpha part of tender number here. Note: Same as SCAC.																
41-07		Tender Supplement		C	NO	2/2	1	5900	O	1	30	3	PI	PI07	660	O	AN	1/2
42		LS SEGMENT - Loop Header		C			1	6700	O	1								
		LOOP CONDITION: Use this loop to describe HAZMAT (LH1 loop) items.																
42-01		Loop Identifier Code		M	NO	1/4	1	6700	O	1			LS01	447	M	AN	1/4	
		Whole number incremented by 1 for each LH1 loop.																
		CHANGE NOTE: Change length attribute to 1/4 per DM 907.																

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Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
43		LH1 SEGMENT - HAZMAT Quantities		C	1	6800	O	1	1000	1	LH1					
		LOOP CONDITION: This loop occurs for each HAZMAT line item described in the LX loop in position 540.														
43-01		HAZMAT - Unit of Measure Code		M ID 2/2	1	6800	O	1	1000	1	LH1	LH101	355	M	ID	2/2
		Contains the code identifying the unit of measure (type of packaging) for which the data in LH102 is reported. See Section 6.0 for appropriate code values.														
		See Section 6.0 (Rail Carrier Shipment Information Implementation Convention) for the valid code list.														
		{To find Section 6.0 on the web, go to https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010														
		[Instructions: At that web location sign in as Guest and select the 404A IC.]														
43-02		HAZMAT - Lading Quantity		M NO 1/7	1	6800	O	1	1000	1	LH1	LH102	80	M	NO	1/7
		Contains the number of units (pieces) of the lading commodity. Reference 49 CFR 172.202(c).														
43-03		UN/NA Identification Code		M ID 6/6	1	6800	O	1	1000	1	LH1	LH103	277	O	ID	6/6
		Contains the United Nations/North America (UN/NA) code.														
43-05		STCC		M NO 7/7	1	6800	O	1	1000	1	LH1	LH105	22	O	AN	1/30
		From 858, L503. Must contain 7 digit numeric hazardous material response code (HMRC).														
43-06		HAZMAT - Unit of Measure Code		C ID 2/2	1	6800	O	1	1000	1	LH1	LH106	355	O	ID	2/2
		Use the unit of measure codes only for quantity or volume of non-bulk hazardous shipments. This includes all codes referenced in LH101 to express type of packaging (will typically be pounds, kilograms, cubic feet, or a unit of measure other than pieces).														
		See Section 6.0 (Rail Carrier Shipment Information Implementation Convention) for the valid code list.														
		{To find Section 6.0 on the web, go to https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010														
		[Instructions: At that web location sign in as Guest and select the 404A IC.]														
43-07		HAZMAT - Non-Bulk Quantity		C R 1/15	1	6800	O	1	1000	1	LH1	LH107	380	O	R	1/15
		Use the unit of measure codes only for non-bulk hazardous shipments Quantity refers to the amount (i.e., weight in pounds/kilograms, volume in cubic feet, or other such measurement) of the HAZMAT commodity to be transported.														

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Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes	
43-09		Residue Indicator Code		C ID 1/1	1	6800	O	1	1000	1	LH1	LH109	665	O	ID 1/1
<p>Use this element and code value 'R' if required to indicate that the unit being shipped is empty and contains a residue from a prior movement, reference 49 CFR 172.203(e). In this situation, L504 should use code value 'L' to denote Last Contained Contents.</p> <p>R - Residue Last Contained Description (Tank Car)</p>															
43-10		Packing Group Code		C ID 1/3	1	6800	O	1	1000	1	LH1	LH110	254	O	ID 1/3
<p>Use this element when required to indicate the packing group, using Roman Numeral I, II, or III, to indicate the degree of danger as shown in column 5 of 49 CFR, Table 172.101.</p>															
44		LH2 SEGMENT - Hazardous Classification Information		C	1	6900	O	4	1000	1	LH1	See X12 Standards for explanation of syntax notes. P0607P0809P1011P1213			
<p>SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used. If available, subsidiary class is required for Canadian shipments.</p>															
44-01		Hazardous Classification		M ID 1/30	1	6900	O	4	1000	1	LH1	LH201	215	O	ID 1/30
<p>Identify the hazard class or division prescribed for the material as shown in column 3 of 49 CFR Table 172.101. If there is no hazard class or division, use the code in that column, such as ORM-D (Other Regulated Material), reference 49 CFR 173.2. If there is a subsidiary hazard but no hazard class or division, use 'NA'. A material for which the entry in this column is 'Forbidden' may not be offered for transportation nor be transported. This segment needs to be repeated for each subsidiary hazard.</p>															
44-02		Hazardous Class Qualifier		M ID 1/1	1	6900	O	4	1000	1	LH1	LH202	983	O	ID 1/1
<p>P - Primary S - Secondary Use S for Canadian shipments.</p>															
44-05		Reportable Quantity Code		C ID 2/2	1	6900	O	4	1000	1	LH1	LH205	759	O	ID 2/2
<p>Element required when necessary to indicate a reportable quantity is present in the shipment. For empty packagings or units containing the residue of a hazardous material, reference 49 CFR 172.203(e).</p> <p>RQ - Reportable Quantity</p>															
44-06		HAZMAT Flashpoint Temperature Code		C ID 2/2	1	6900	O	4	1000	1	LH1	LH206	355	C	ID 2/2
<p>Required when LH207 is used.</p> <p>CE - Centigrade FA - Fahrenheit</p>															
44-07		HAZMAT Flashpoint Temperature		C R 1/4	1	6900	O	4	1000	1	LH1	LH207	408	C	R 1/4
44-12		Weight Unit Code		M R 1/1	1	6900	O	4	1000	1	LH1	LH212	188	C	ID 1/1
<p>E - Metric Ton</p>															

DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
		G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton														
44-13		Net Explosive Quantity		M NO 1/10	1	6900	O	4	1000	1	LH1	LH213	267	C	NO	1/10
		Net Explosive Quantity is the actual weight of explosive mixtures or compounds (e.g., weight of the gun power).														
45		LH3 SEGMENT - Hazardous Material Shipping Name		C	1	7000	O	10	1000	1	LH1					
		SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.												See X12 Standards for explanation of syntax notes. P0102		
45-01		Hazardous Material Shipping Name		M AN 1/25	1	7000	O	10	1000	1	LH1	LH301	224	C	AN	1/25
		From table at 49 CFR 172.101, column 2. Mandatory for all HAZMAT shipments including ammunition and explosives. See 49 CFR 172.202 for additional details. Place remainder of Proper Shipping Name exceeding 25 characters in another occurrence of the LH3. Can not hyphenate/break a shipping name regardless of field length unless the name is broken where hyphens already exist.														
45-02		Hazardous Material Shipping Name Qualifier		M ID 1/1	1	7000	O	10	1000	1	LH1	LH302	984	C	ID	1/1
		C - Canadian Shipping Name D - Domestic (United States) Shipping Name I - International Shipping Name														
45-03		NOS Indicator Code		C ID 3/3	1	7000	O	10	1000	1	LH1	LH303	985	O	ID	3/3
		If this field is used, an LFH segment must follow using code value 'TEC' in LFH01. NOS - N.O.S. Regulatory Requirements Apply														

DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes	
46		LFH SEGMENT - Hazardous Material Additional Shipment Information		C	1	7100	O	20	1000	1	LH1				
SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.					See X12 Standards for explanation of syntax notes. P0506										
46-01		Hazardous Material Additional Shipment Information Qualifier		M ID 3/3	1	7100	O	20	1000	1	LH1	LFH01	808	M	ID 3/3
<p>Contains the HAZMAT shipment information qualifier indicating the type of information being passed. Mandatory for all explosives unless otherwise noted in 49 CFR 172.320. Use interim EX-number for explosives waiting for final classification.</p> <p>If the X12 code definition accompanying a LFH01 code value contains text in quotations, place the part in quotations in LFH02. If the code definition contains no quotations, see the user note in LFH02 for further guidance.</p> <p>Enter additional information that must appear in association with the shipment's basic description according to 49 CFR. Use additional occurrences of LFH segment as necessary for each code that applies to shipment.</p> <p>ADI - Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper <i>Use ADI for other information not accounted for in the code list.</i></p> <p>DWW - "Dangerous When Wet" Declaration</p> <p>HOT - Identifies Products in a Heated Molten State</p> <p>HZC - Hazardous Substance Constituents</p> <p>LQY - "Limited Quantity" Declaration</p> <p>MOS - Maximum Operating Speed</p> <p>MPI - Marine Pollutant</p> <p>PIH - "Poison - Inhalation Hazard" Declaration</p> <p>POI - "Poison" Declaration</p> <p>RAM - Radioactive Material Data</p> <p>TEC - Technical or Chemical Group Name <i>Use 'TEC' if the N.O.S. indicator is specified in LH303..</i></p>															

DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
46-02		Hazardous Material Additional Shipment Information		M AN 1/25	1	7100	O	20	1000	1	LH1	LFH02	809	M	AN	1/25
<p>Contains specific information about the HAZMAT shipment. When applicable, use the descriptive narrative from LFH01. If LFH01 = 'ADI', use this element for any overflow information from LFH01 or 49 CFR except Proper Shipping Name. Use LFH03 for additional overflow.</p> <p>If LFH01 = 'PIH', enter value 'Poisonous - Inhalation Hazard, Zone X', where X is the code designated in LFH04. If LFH01 = 'HOT', enter value 'HOT' [See 49 CFR 172.203(n)]. If LFH01 = 'RAM', enter the appropriate text in quotes as specified by 49 CFR 172.203(d). If LFH01 = 'LQY', enter value 'Ltd Qty' or 'Limited Quantity'. If LFH01 = 'HZC', enter value 'Hazardous substance constituents.' If LFH01 = 'MOS', enter value 'Maximum operating speed.' If LFH01 = 'MPI', enter value 'Marine Pollutant.' If LFH01 = 'POI', enter value 'Poison' and use a second LFH with code value 'ADI' to indicate the Infectious Risk Group Information. If LFH01 = 'ADI', enter appropriate infectious Risk Group or Fumigation Information. For N.O.S. code (LFH01 = 'TEC'), enter the technical or chemical group name in parentheses. Place overflow in LFH03. Do not close parentheses until end of description is reached.</p>																
46-03		Hazardous Material Additional Shipment Information		C AN 1/25	1	7100	O	20	1000	1	LH1	LFH03	809	O	AN	1/25
<p>Use for description overflow from LFH02. Use LFH01, 02, and 03 as a set and repeat loop as necessary to convey all additional basic description information.</p>																
46-04		Hazard Zone Code		C ID 1/1	1	7100	O	20	1000	1	LH1	LFH04	1023	O	ID	1/1
<p>Use applicable Hazard Zone Code when LFH01 = PIH. Contains the code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone.</p> <p>A - Hazard Zone A B - Hazard Zone B C - Hazard Zone C D - Hazard Zone D</p>																
47		LH4 SEGMENT - Canadian Dangerous Requirements		C	1	7300	O	4	1000	1	LH1					
<p>SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.</p>												See X12 Standards for explanation of syntax notes. P0102P0812				
47-01		Emergency Response Plan Number		M AN 1/12	1	7300	O	4	1000	1	LH1	LH401	238	C	AN	1/12
<p>Required if the commodity is listed in Schedule XII of the Canadian TDG regulations.</p>																
47-02		Communication Number		M AN 1/80	1	7300	O	4	1000	1	LH1	LH402	364	C	AN	1/256
<p>Required if LH401 is present.</p>																

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47-07		Subsidiary Risk Indicator		C ID 1/2	1	7300	O	4	1000	1	LH1	LH407	271	O	ID	1/2
		Code identifying the type of subsidiary risk.														
		I - Potentially Very Damaging To The Eyes														
47-08		Net Explosive Quantity		C NO 1/6	1	7300	O	4	1000	1	LH1	LH408	267	C	NO	1/10
		Use for Class 1 Dangerous Goods - express the net weight of the explosive quantity.														
47-09		Canadian Hazardous Notation		C AN 1/25	1	7300	O	4	1000	1	LH1	LH409	805	O	AN	1/25
		Use only if transporting "Anhydrous Ammonia" - UN1005														
47-10		Special Commodity Indicator Code		C ID 1/1	1	7300	O	4	1000	1	LH1	LH410	986	O	ID	1/1
		Code indicating special commodity as identified by the Transportation of Dangerous Goods Act and Regulation.														
		S - Positive Indicator														
47-12		Unit or Basis for Measurement Code		C ID 2/2	1	7300	O	4	1000	1	LH1	LH412	355	C	ID	2/2
		Identifies unit of measure in LH408.														
		KG - Kilogram														
		PN - Pounds Net														
48		LHT SEGMENT - Transborder Hazardous Requirements		C	1	7400	O	3	1000	1	LH1					
		SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.														
48-01		Hazardous Classification		M ID 1/30	1	7400	O	3	1000	1	LH1	LHT01	215	O	ID	1/30
		For US to Canada transborder moves, this field must contain the information required by the Canadian regulations when the proper shipping name is Anhydrous Ammonia and/or Anhydrous Ammonia Solutions.														
49		LHR SEGMENT - Hazardous Material DOT Explosive Approval Number		C	1	7500	O	5	1000	1	LH1					
		SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.														
49-01		HAZMAT - DOT Explosive Approval Number Qualifier		M ID 2/3	1	7500	O	5	1000	1	LH1	LHR01	128	M	ID	2/3
		HD - Department of Transportation Hazardous Number														
49-02		HAZMAT - DOT Explosive Approval Number (EX-number)		M AN 1/30	1	7500	O	5	1000	1	LH1	LHR02	127	M	AN	1/80
		Product codes and national stock numbers must be traceable to the specific EX-number (also referred to as hazard classification approval number) assigned by the Associate Administrator for Hazardous Materials Safety. Reference 49 CFR 172.320 and 173.56(b).														
49-03		Date		C DT 8/8	1	7500	O	5	1000	1	LH1	LHR03	373	O	DT	8/8

DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes	
50		LHR SEGMENT - HAZMAT - DoD Identification Code (DoDIC)		C	1	7500	O	5	1000	1	LH1				
		SEGMENT CONDITION: Required if the HAZMAT shipment contains ammunition. (Map from N9 segment, position 100 in 858R transaction.)													
50-01		HAZMAT - DoD Identification Code (DoDIC) Qualifier		M ID 2/3	1	7500	O	5	1000	1	LH1	LHR01	128	M	ID 2/3
		Required if the HAZMAT shipment contains ammunition. 11 - Department of Defense Identification Code (DoDIC) (Code value should be read as 'one eye'.)													
50-02		HAZMAT - DoD Identification Code (DoDIC)		M AN 4/4	1	7500	O	5	1000	1	LH1	LHR02	127	M	AN 1/80
		Mandatory for all ammunition and explosives. Also called Navy Ammunition Logistics Code (NALC).													
51		LHR SEGMENT - Competent Authority Approval Number		C	1	7500	O	5	1000	1	LH1				
		SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.													
51-01		Competent Authority Approval Number Qualifier		M ID 2/2	1	7500	O	5	1000	1	LH1	LHR01	128	M	ID 2/3
		HA - Competent Authority													
51-02		Competent Authority Approval Number		M AN 10/10	1	7500	O	5	1000	1	LH1	LHR02	127	M	AN 1/80
		Issued by Department of Transportation, approval number is CA-YYNNNNNA, where Y = year, N = approval number within that year, and A is an optional alphanumeric designator. Only applicable when DoD requires an exception to the international performance oriented packaging rules.													
52		LHR SEGMENT - DOT Exemption (DOT-E) Number		C	1	7500	O	5	1000	1	LH1				
		SEGMENT CONDITION: Required if shipment is HAZMAT and LH1 is used.													
52-01		DOT Exemption (DOT-E) Number Qualifier		M ID 2/2	1	7500	O	5	1000	1	LH1	LHR01	128	M	ID 2/3
		HE - Hazardous Exemption Number													
52-02		DOT Exemption (DOT-E) Number		M AN 1/30	1	7500	O	5	1000	1	LH1	LHR02	127	M	AN 1/80
		Identifies the DOT Exemption to any of the 49 CFR Regulations for HAZMAT materials. Normally used only for domestic shipments. Can be used for international shipments but is not guaranteed to be accepted by international customs. Reference 49 CFR 172.2(a).													
53		LHR SEGMENT - Int'n Maritime Dangerous Goods Code		C	1	7500	O	5	1000	1	LH1				
		SEGMENT CONDITION: Use this segment if the HAZMAT shipment requires international regulation.													
53-01		HAZMAT - Int'n Maritime Dangerous Goods Code (IMDG) Qualifier		M ID 2/2	1	7500	O	5	1000	1	LH1	LHR01	128	M	ID 2/3
		IM - Intergovernmental Maritime Organization (IMO) Number													

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Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes			
53-02		HAZMAT - Int'n Maritime Dangerous Goods Code (IMDG)		M	AN	1/30	1	7500	O	5	1000	1	LH1	LHR02	127	M	AN	1/80
54		PER SEGMENT - Canadian Shipment Contact C SEGMENT CONDITION: Required for all HAZMAT shipments.				1	7550	O	5	1000	1	LH1	See X12 Standards for explanation of syntax notes. P0304P0506P0708					
54-01		Contact Function Code HM - Hazardous Material Contact		M	ID	2/2	1	7550	O	5	1000	1	LH1	PER01	366	M	ID	2/2
54-03		Communication Number Qualifier TE - Telephone		M	ID	2/2	1	7550	O	5	1000	1	LH1	PER03	365	C	ID	2/2
54-04		Communication Number The words "24 hour number" must appear before the telephone number for Canadian shipments only.		M	AN	7/80	1	7550	O	5	1000	1	LH1	PER04	364	C	AN	1/256
55		LE SEGMENT - Loop Trailer C SEGMENT CONDITION: Use this segment if LS segment is used.				1	7600	O	1									
55-01		Loop Identifier Code Use same value as LS01.		M	NO	1/6	1	7600	O	1				LE01	447	M	AN	1/4
56		PER SEGMENT - Shipment Contact C SEGMENT CONDITION: Use only for HAZMAT shipments with single point of contact. Do not use if shipment is to Canada; use Canadian Shipment Contact PER Segment.				1	7700	O	5	See X12 Standards for explanation of syntax notes. P0304P0506P0708								
56-01		Shipment Contact Qualifier If shipment is to Canada and HAZMAT, use additional PER segment for additional Canadian HAZMAT contact. HM - Hazardous Material Contact		M	ID	2/2	1	7700	O	5				PER01	366	M	ID	2/2
56-03		Communications Qualifier TE - Telephone		M	ID	2/2	1	7700	O	5				PER03	365	C	ID	2/2
56-04		Shipment Contact Telephone Number Telephone number of shipment POC.		M	AN	7/21	1	7700	O	5				PER04	364	C	AN	1/256
57		PER SEGMENT - Canadian Shipment Contact C SEGMENT CONDITION: Use if shipment is to Canada and is HAZMAT. For Canadian shipments - no phone extensions are allowed - the number must be a direct line.				1	7700	O	5	See X12 Standards for explanation of syntax notes. P0304P0506P0708								
57-01		Canadian Shipment Contact Qualifier CN - General Contact Use CN to denote Canadian Contact.		M	ID	2/2	1	7700	O	5				PER01	366	M	ID	2/2

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Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes
57-03		Canadian Communications Qualifier TE - Telephone		M ID 2/2	1	7700	O	5				PER03	365	C ID 2/2
57-04		Canadian Shipment Contact Telephone Number Telephone number of shipment POC.		M AN 7/21	1	7700	O	5				PER04	364	C AN 1/256
58		PER SEGMENT Emergency SDDC Contact SEGMENT CONDITION: Use only if shipment contains multiple HAZMAT commodities with different emergency contacts. For Canadian shipments - no phone extensions are allowed - the number must be a direct line.		C	1	7700	O	5						See X12 Standards for explanation of syntax notes. P0304P0506P0708
58-01		Emergency Contact Qualifier EF - Emergency Contact-Military Traffic Management Command (MTMC) <i>Use EF to denote Emergency Contact - Military Surface Deployment and Distribution Command (SDDC) (Formerly MTMC).</i>		M ID 2/2	1	7700	O	5				PER01	366	M ID 2/2
58-03		Communication Qualifier TE - Telephone		M ID 2/2	1	7700	O	5				PER03	365	C ID 2/2
58-04		Emergency Contact Telephone Number		M AN 7/21	1	7700	O	5				PER04	364	C AN 1/256
59		LH6 SEGMENT - Hazardous Certification SEGMENT CONDITION: Use only for HAZMAT shipments.		C	1	8000	O	5						See X12 Standards for explanation of syntax notes. P0203
59-01		HAZMAT - Certifying Person (49 CFR Compliance) If unknown enter value 'Transportation Officer'.		M AN 1/35	1	8000	O	5				LH601	93	O AN 1/60
60		SE SEGMENT - Rail Carrier Information Trailer		M	1	8400	M	1						
60-01		Number of Included Segments Total segments in this transaction set including the ST and SE segments.		M NO 1/10	1	8400	M	1				SE01	96	M NO 1/10
60-02		Transaction Set Control Number This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.		M AN 4/9	1	8400	M	1				SE02	329	M AN 4/9

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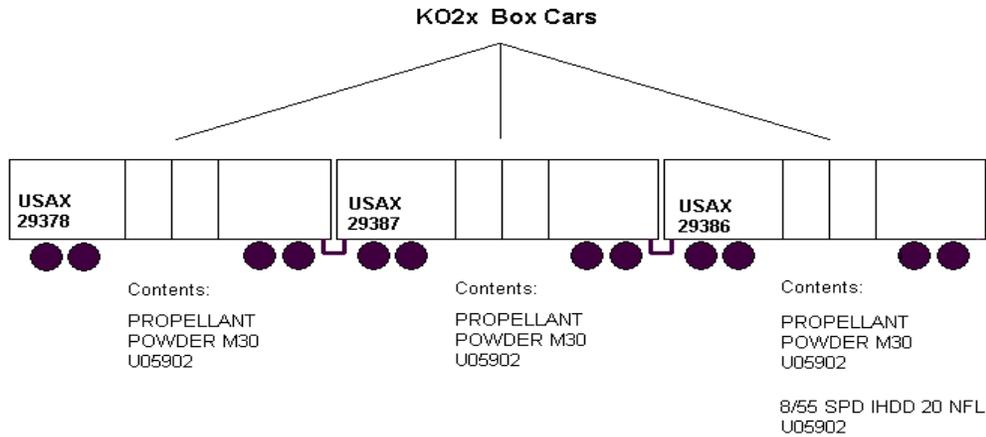
Section 5.0

IC ELEMENTS IN EDI FORMAT

This section contains three examples of the Rail Carrier Shipment Information data requirement mapped to the ASC X12 transaction set 404 Shipment Information. The first example is for car loads, the second shows TOFC/COFC, the third illustrates non-hazardous rail shipments, the fourth contains samples of actual transmissions for Containerized Intermodal Shipments, and the last presents an example 404 with Conventional Railcar Shipments.

EXAMPLE I – CAR LOADS

Figure 5.1 Car Loads Example Diagram



This example takes an 858 with three cars and four commodities and translates it into three 404's

```

ISA~00~                ~00~                ~01~CFMFIELDMOD    ~01~CFMEDI
~000313~1816~U~00200~000000551~0~T~|
GS~SI~FMCBL~CFM~000313~1816~552~X~003050

ST~858~0001
BX~00~R~CC~G2776769~UP~~B
N9~FI~SI
N9~RG~96ECAPM4GS
Y7~3
G62~68~001001~~~~20
G62~76~001001~~~~20
G62~83~001001~~~~20
G62~86~000314~~~LT~20
PER~EF~~TE~(800) 524-0331
R2~UP~S~STOCKTON, CA~868560250
R2~BNSF~1~~784170250
H3~RIS
H3~RIS
H3~RIS
NTE~APS~1,268760,21 020340000065082514210000022NL011173 JONO 0P1601 PRON
M206D333M2KZ
NTE~PAY~11862.30
NTE~INT~111
NTE~INT~112
NTE~INT~114
NTE~INT~116
NTE~INT~202
NTE~INT~206
NTE~INT~209
NTE~INT~348
NTE~INT~367
NTE~CLR~U
NTE~LOI~NONEXCLUSIVE
N7~USAX~29378~154000~N~~~~~5006~~~~~K02x
M7~0102012~0102013~~~SH
    
```

N5~5006~154~~KO2x
N7~USAX~29387~154000~N~~~~~5006~~~~~KO2x
M7~0102029~0102030~~~SH
N5~5006~154~~KO2x
N7~USAX~29386~154000~N~~~~~5006~~~~~KO2x
M7~0102019~0102020~~~SH
N5~5006~154~~KO2x
N1~CA~UNION PACIFIC RAILROAD CO
PER~EM~JEANETTE CUNNINGHAM, MGR TMD~TE~775-945-7203
N1~ST~TRANSPORTATION OFFICER~10~W43EF2
N3~TPL INC.FORT WINGATE DEPOT ACTIVITY
N3~ATT: DURAN
N4~MC CUNE~NM~87316~~SL~784185000
PER~EM~TPL INC FT WINGATE, MC CUNE, NM~TE~(505) 488-5487
N1~SF~TRANSPORTATION OFFICER~10~W65XZ2
N3~HAWTHORNE ARMY DEPOT
N3~CODE SIOHW-TM
N4~HAWTHORNE~NV~894155000~~SL~868560250
PER~EM~HAWTHORNE ARMY DEPOT, HAWTHORNE,NV~TE~(775) 945-7118
PER~EM~~AU~830-7118
N1~CN~TRANSPORTATION OFFICER~10~W43EF2
N3~TPL INC.FORT WINGATE DEPOT ACTIVITY
N3~P.O. BOX 1456
N4~GALLUP~NM~873019503~~BL~KLAQ
N1~SH~TRANSPORTATION OFFICER~10~W65XZ2
N3~HAWTHORNE ARMY DEPOT
N3~CODE SIOHW-TM
N4~HAWTHORNE~NV~894155000~~BL~JAAM
N1~PO~USBANK~10~PWTRK
N1~IU~TRANSPORTATION OFFICER~10~W65XZ2
N3~HAWTHORNE ARMY DEPOT
N3~CODE SIOHW-TM
N4~HAWTHORNE~NV~894155000~~BL~JAAM
PER~IO~STEVEN A. CLARK,TRANSPORTATION OFFI
LX~100
N7~USAX~29378
N9~TG~W81YWB9327T314BAX
N9~NS~1376010685086
N9~TH~A6
N9~P4~HMA
N9~M6~7
L5~~PROPELLANT POWDER M30~U05902~D
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~THIS IS TO CERTIFY THAT T~HE HEREIN-NAMED
MATERIALS
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~ARE PROPERLY CLASSIFIED,~DESCRIBED,
PACKAGED, MARK
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~ED & LABELED, AND ARE IN~PROPER CONDITION
FOR TRAN
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~SPORTATION ACCORDING TO T~HE APPLICABLE
REGULATIONS
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~OF THE DEPARTMENT OF TRAN~SPORTATION.
L0~~86960~LB~~~1782~E~44~PLT
MEA~~HT~0~IN
MEA~~LN~0~IN
MEA~~WD~0~IN
MEA~NX~~62920~PN
MEA~CT~~62920~RO
MEA~PA~B~4400~PN
MEA~DN~B~2000~PN
LH1~PL~44~UN0161~~~LB~86960~~~II
LH2~1.3C~P

LH3~Powder, smokeless.~I
LX~100
N7~USAX~29387
N9~TG~W81YWB9327T314BDX
N9~NS~1376010685086
N9~TH~A6
N9~P4~HMA
N9~M6~7
L5~~PROPELLANT POWDER M30~U05902~D
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~THIS IS TO CERTIFY THAT T~HE HEREIN-NAMED
MATERIALS
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~ARE PROPERLY CLASSIFIED,~DESCRIBED,
PACKAGED, MARK
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~ED & LABELED, AND ARE IN~PROPER CONDITION
FOR TRAN
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~SPORTATION ACCORDING TO T~HE APPLICABLE
REGULATIONS
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~OF THE DEPARTMENT OF TRAN~SPORTATION.
L0~~88720~LB~~~1820~E~52~MXD
MEA~~HT~0~IN
MEA~~LN~0~IN
MEA~~WD~0~IN
MEA~NX~~63720~PN
MEA~CT~~63720~RO
MEA~PA~B~4400~PN
MEA~DN~B~2000~PN
LH1~MX~52~UN0161~~~LB~88720~~~II
LH2~1.3C~P
LH3~Powder, smokeless.~I
LX~100
N7~USAX~29386
N9~TG~W81YWB9327T314BZX
N9~NS~1376010685086
N9~TH~A6
N9~P4~HMA
N9~M6~7
L5~~PROPELLANT POWDER M30~U05902~D
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~THIS IS TO CERTIFY THAT T~HE HEREIN-NAMED
MATERIALS
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~ARE PROPERLY CLASSIFIED,~DESCRIBED,
PACKAGED, MARK
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~ED & LABELED, AND ARE IN~PROPER CONDITION
FOR TRAN
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~SPORTATION ACCORDING TO T~HE APPLICABLE
REGULATIONS
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~OF THE DEPARTMENT OF TRAN~SPORTATION.
L0~~46280~LB~~~925~E~28~MXD
MEA~~HT~0~IN
MEA~~LN~0~IN
MEA~~WD~0~IN
MEA~NX~~32804~PN
MEA~CT~~32804~RO
MEA~PA~B~2300~PN
MEA~DN~B~2000~PN
LH1~MX~28~UN0161~~~LB~46280~~~II
LH2~1.3C~P
LH3~Powder, smokeless.~I
LX~100
N7~USAX~29386
N9~TG~W81YWB9327T315XZX
N9~NS~1376011298055

N9~TH~A6
N9~P4~HMA
N9~M6~7
L5~~8/55 SPD IHDD 20 NFL~U05902~D
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~THIS IS TO CERTIFY THAT T~HE HEREIN-NAMED
MATERIALS
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~ARE PROPERLY CLASSIFIED,~DESCRIBED,
PACKAGED, MARK
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~ED & LABELED, AND ARE IN~PROPER CONDITION
FOR TRAN
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~SPORTATION ACCORDING TO T~HE APPLICABLE
REGULATIONS
LH6~JEANETTE CUNNINGHAM, MGR TMD~1~OF THE DEPARTMENT OF TRAN~SPORTATION.
L0~~28400~LB~~~610~E~18~MXD
MEA~~HT~0~IN
MEA~~LN~0~IN
MEA~~WD~0~IN
MEA~NX~~20806~PN
MEA~CT~~20806~RO
MEA~PA~B~1300~PN
LH1~MX~18~UN0161~~~LB~28400~~~II
LH2~1.3C~P
LH3~Powder, smokeless.~I
LX~200
L0~~~~268760~G~~~~~L
LX~200
L0~~~~268760~N~~~~~L
LX~200
L0~~~~180250~NX~~~~~L
LX~200
L0~~~~6000~R~~~~~L
LX~200
L0~~~~12400~PL~~~~~L
LX~200
L0~~~~250360~FR~~~~~L
LX~300
L0~300
L1~~~~0~~~~RIS
LX~300
L0~300
L1~~~~0~~~~RIS
LX~300
L0~300
L1~~~~0~~~~RIS
LX~400
L7~~UP~500719~~~~~00
L5~~U05902~D
L0~~268760~LB~250360~FR~~~~~L
L1~~~~0~~~~QUO
LH1~ZZ~0
L3~~~~~1186230~~~~~5137~E~3
SE~186~0001
GE~1~552
IEA~1~000000551

RAIL CARLOAD 404 EXAMPLE

ST~404~0001
BX~00~R~PP~~UP~L~B
BNX~A~S
M3~R~20000314~1558~ET
N9~BM~G2776769~~20000313~1558~ET
DTM~017~20000321
DTM~196~20000314
N7~USAX~29378~86960~N~~~~~RR~~~~5006
M7~0102012~0102013
F9~~HAWTHORNE~NV~~~~868560250
D9~~MC CUNE~NM~~~~784185000
N1~N1~TRANSPORTATION OFFICER
N3~TPL INC.FORT WINGATE DEPOT ACTIVITY~ATT: DURAN
N4~MC CUNE~NM~87316~~SL~784185000
PER~NT~TPL INC FT WINGATE, MC CUNE, NM~TE~5054885487
N1~SF~TRANSPORTATION OFFICER
N3~HAWTHORNE ARMY DEPOT~CODE SIOHW-TM
N4~HAWTHORNE~NV~894155000~~SL~868560250
N1~CN~TRANSPORTATION OFFICER
N3~TPL INC.FORT WINGATE DEPOT ACTIVITY~P.O. BOX 1456
N4~GALLUP~NM~873019503
N1~SH~TRANSPORTATION OFFICER
N3~HAWTHORNE ARMY DEPOT~CODE SIOHW-TM
N4~HAWTHORNE~NV~894155000
N1~UC~US GOVERNMENT
N3~HAWTHORNE ARMY DEPOT~CODE SIOHW-UC
N4~HAWTHORNE~NV~894155000
N1~PF~USBANK
N3~123 MAIN STREET
N4~MINNEAPOLIS~MN~123400
R2~UP~S~STOCKTON
R2~BNSF~1
H3~RIS
LX~100
L5~01~PROPELLANT POWDER M30~1951154~T
L0~01~86960~LB~~~1782~E~44~PLT
PI~CT~500719~TP~~UP~UP~00
LS~100
LH1~PL~44~UN0161~~1951154~LB~86960~~~II
LH2~1.3C~P
LH3~Powder, smokeless.~I
LE~100
PER~HM~~TE~8005240331
LH6~JEANETTE CUNNINGHAM, MGR TMD
SE~40~0001

ST~404~0002
BX~00~R~PP~~UP~L~B
BNX~A~S
M3~R~20000314~1558~ET
N9~BM~M2776769~~20000313~1558~ET
DTM~017~20000321
DTM~196~20000314
N7~USAX~29378~88720~N~~~~~RR~~~~5006
M7~0102012~0102013
F9~~HAWTHORNE~NV~~~~~868560250
D9~~MC CUNE~NM~~~~~784185000
N1~N1~TRANSPORTATION OFFICER
N3~TPL INC.FORT WINGATE DEPOT ACTIVITY~ATT: DURAN
N4~MC CUNE~NM~87316~~SL~784185000
PER~NT~TPL INC FT WINGATE, MC CUNE, NM~TE~5054885487
N1~SF~TRANSPORTATION OFFICER
N3~HAWTHORNE ARMY DEPOT~CODE SIOHW-TM
N4~HAWTHORNE~NV~894155000~~SL~868560250
N1~CN~TRANSPORTATION OFFICER
N3~TPL INC.FORT WINGATE DEPOT ACTIVITY~P.O. BOX 1456
N4~GALLUP~NM~873019503
N1~SH~TRANSPORTATION OFFICER
N3~HAWTHORNE ARMY DEPOT~CODE SIOHW-TM
N4~HAWTHORNE~NV~894155000
N1~UC~US GOVERNMENT
N3~HAWTHORNE ARMY DEPOT~CODE SIOHW-UC
N4~HAWTHORNE~NV~894155000
N1~PF~USBANK
N3~123 MAIN STREET
N4~MINNEAPOLIS~MN~123400
R2~UP~S~STOCKTON
R2~BNSF~1
H3~RIS
LX~100
L5~01~PROPELLANT POWDER M30~1951154~T
L0~01~88720~LB~~~1820~E~52~MXD
PI~CT~500719~TP~~UP~UP~00
LS~100
LH1~MX~52~UN0161~~1951154~LB~88720~~~II
LH2~1.3C~P
LH3~Powder, smokeless.~I
LE~100
PER~HM~~TE~8005240331
LH6~JEANETTE CUNNINGHAM, MGR TMD
SE~40~0002

ST~404~0003
BX~00~R~PP~~UP~L~B
BNX~A~S
M3~R~20000314~1558~ET
N9~BM~M2776769~~20000313~1558~ET
DTM~017~20000321
DTM~196~20000314
N7~USAX~29378~74680~N~~~~~RR~~~~5006
M7~0102012~0102013
F9~~HAWTHORNE~NV~~~~~868560250
D9~~MC CUNE~NM~~~~~784185000
N1~N1~TRANSPORTATION OFFICER
N3~TPL INC.FORT WINGATE DEPOT ACTIVITY~ATT: DURAN
N4~MC CUNE~NM~87316~~SL~784185000
PER~NT~TPL INC FT WINGATE, MC CUNE, NM~TE~5054885487
N1~SF~TRANSPORTATION OFFICER
N3~HAWTHORNE ARMY DEPOT~CODE SIOHW-TM
N4~HAWTHORNE~NV~894155000~~SL~868560250
N1~CN~TRANSPORTATION OFFICER
N3~TPL INC.FORT WINGATE DEPOT ACTIVITY~P.O. BOX 1456
N4~GALLUP~NM~873019503
N1~SH~TRANSPORTATION OFFICER
N3~HAWTHORNE ARMY DEPOT~CODE SIOHW-TM
N4~HAWTHORNE~NV~894155000
N1~UC~US GOVERNMENT
N3~HAWTHORNE ARMY DEPOT~CODE SIOHW-UC
N4~HAWTHORNE~NV~894155000
N1~PF~USBANK
N3~123 MAIN STREET
N4~MINNEAPOLIS~MN~123400
R2~UP~S~STOCKTON
R2~BNSF~1
H3~RIS
LX~100
L5~01~PROPELLANT POWDER M30~1951154~T
L0~01~46280~LB~~~925~E~28~MXD
PI~CT~500719~TP~~UP~UP~00
LX~101
L5~02~8/55 SPD IHDD 20 NFL~1951154~T
L0~02~28400~LB~~~610~E~18~MXD
LS~100
LH1~MX~28~UN0161~~1951154~LB~46280~~~II
LH2~1.3C~P
LH3~Powder, smokeless.~I
LH1~MX~18~UN0161~~1951154~LB~28400~~~II
LH2~1.3C~P
LH3~Powder, smokeless.~I
LE~100
PER~HM~~TE~8005240331
LH6~JEANETTE CUNNINGHAM, MGR TMD
SE~46~0003

EXAMPLE II - RAIL NONHAZARDOUS 858

ISA~00~ ~00~ ~01~MTIMCF ~01~UP
~991214~2246~U~00200~000000467~0~P~|
GS~SI~MTIMCF~UP~991214~2246~468~X~003050

ST~858~0001
BX~00~R~CC~M2456081~UP~~B
N9~FI~SI
N9~RG~1NXX01749A
Y7~1
G62~68~991229
G62~76~991214
G62~83~991208
G62~86~991208~~~LT
R2~DLTK~1~~880180250
R2~UP~2~~471966250
NTE~APS~2,323520,21 020200000076020471150120022NL004013 47EPLRGLBM2456081000
NTE~PAY~7902.00
NTE~INT~111
NTE~INT~116
NTE~INT~209
NTE~CLR~U
NTE~LOI~NONEXCLUSIVE
N7~DODX~40170~~~~~6000~~~~~KZ1x
N5~6000~~~KZ1x
N7~DODX~40397~~~~~6000~~~~~KZ1x
N5~6000~~~KZ1x
N1~CA~UNION PACIFIC RAILROAD CO
N1~ST~TRANSPORTATION OFFICER~10~W31G1Z
N3~DEFENSE DISTRIBUTION DEPOT
N3~7 FRANKFORD AVENUE, ATTN: DDAA-T
N4~ANNISTON~AL~362014199~~SL~471966250
N1~SF~MOVEMENT CONTROL CENTER~10~W80S4X
N3~NATIONAL TRAINING CENTER
N3~BLDG 828
N4~FORT IRWIN~CA~923105000~~SL~880180250
N1~CN~TRANSPORTATION OFFICER~10~W31G1Z
N3~DEF DIST DEPOT, ANNISTON ARMY DEPOT
N3~7 FRANKFORD AVENUE, ATTN: DDAA-T
N4~ANNISTON~AL~362014199~~BL~FGAQ
N1~SH~TRANSPORTATION DIVISION~10~W80S4X
N3~NATIONAL TRAINING CENTER
N3~P.O. BOX 105031 // AFZJ-MCT-F
N4~FORT IRWIN~CA~923105031~~BL~LKAT
N1~PO~DEFENSE FINANCE AND ACCOUNTING SVC~10~W53QRD
N3~INDIANAPOLIS CENTER
N3~TRANSPORTATION OPS. (DFAS-I-THA)
N4~INDIANAPOLIS~IN~462490611~~BL~IOOI
N1~IU~TRANSPORTATION OFFICER~10~W80S4X
N3~NATIONAL TRAINING CENTER FT IRWIN
N3~P.O. BOX 105031 // AFZJ-MCT-F
N4~FORT IRWIN~CA~923105000~~BL~LKAT
PER~IO~S. J. MCALLISTER,ACTING CHIEF, TRAN
LX~100
N7~DODX~40170
NA~VT~~~S/N: BMY1226----~NONX~CVE YARD
N9~TG~W80WKN92214500AXX

N9~TH~EPLRISM
L5~~M88A1, REC VEH FT MED~U7277917~D
L0~~107840~LB~~~3606.8~E~1~VEH
MEA~~HT~134~IN
MEA~~LN~323~IN
MEA~~WD~144~IN
LX~100
N7~DODX~40170
NA~VT---S/N: BMY1688----~NONX~CVE YARD
N9~TG~W80WKN92710003BXX
N9~TH~EPLRISM
L5~~M88A1, REC VEH FT MED~U7277917~D
L0~~107840~LB~~~3606.8~E~1~VEH
MEA~~HT~134~IN
MEA~~LN~323~IN
MEA~~WD~144~IN
LX~100
N7~DODX~40397
NA~VT---S/N: 9B4300-----~NONX~CVE YARD
N9~TG~W90NWR91037000XXX
N9~TH~EPLRISM
L5~~M88A1, REC VEH FT MED~U7277917~D
L0~~107840~LB~~~3606.8~E~1~VEH
MEA~~HT~134~IN
MEA~~LN~323~IN
MEA~~WD~144~IN
LX~200
L0~~~~323520~G~~~~~L
LX~200
L0~~~~323520~N~~~~~L
LX~200
L0~~~~323520~FR~~~~~L
LX~400
L7~~UP~500678~~~~~00
L5~~M88A1 RECOVERY VEHICLE~U7277917~D
L0~~323520~LB~323520~FR~~~~~L
L1~~~~0~~~~~I
L3~~~~790200~~~~~10820.4~E~2
SE~91~0001
GE~1~468
IEA~1~000000467

Example II – Rail NonHazardous 404

ISA~00~ ~00~ ~01~CFMFIELDMOD ~01~CFMEDI
~991214~2246~U~00200~000000467~0~P~|
GS~SI~FMCBL~CFM~991214~2246~468~X~003050
ST~858~0001
BX~00~R~CC~G2456081~UP~~B
N9~FI~SI
N9~RG~1NXX01749A
Y7~1
G62~68~991229~~~~19
G62~76~991214~~~~19
G62~83~991208~~~~19
G62~86~991208~~~LT~19
R2~VCND~1~WEST YERMO~880180250
R2~UP~2~KANSAS CITY
R2~NS~3~~471966250
NTE~APS~2,323520,21 020200000076020471150120022NL004013 47EPLRGLBG2456081000
NTE~PAY~7902.00
NTE~INT~111
NTE~INT~116
NTE~INT~209
NTE~CLR~U
NTE~LOI~NONEXCLUSIVE
N7~DODX~40170~~~~~6000~~~~~KZ1x
N5~6000~~~KZ1x
N7~DODX~40397~~~~~6000~~~~~KZ1x
N5~6000~~~KZ1x
N1~CA~UNION PACIFIC RAILROAD CO
N1~ST~TRANSPORTATION OFFICER~10~W31G1Z
N3~DEFENSE DISTRIBUTION DEPOT
N3~7 FRANKFORD AVENUE, ATTN: DDAA-T
N4~ANNISTON~AL~362014199~~SL~471966250
N1~SF~MOVEMENT CONTROL CENTER~10~W80S4X
N3~NATIONAL TRAINING CENTER
N3~BLDG 828
N4~FORT IRWIN~CA~923105000~~SL~880180250
N1~CN~TRANSPORTATION OFFICER~10~W31G1Z
N3~DEF DIST DEPOT, ANNISTON ARMY DEPOT
N3~7 FRANKFORD AVENUE, ATTN: DDAA-T
N4~ANNISTON~AL~362014199~~BL~FGAQ
N1~SH~TRANSPORTATION DIVISION~10~W80S4X
N3~NATIONAL TRAINING CENTER
N3~P.O. BOX 105031 // AFZJ-MCT-F
N4~FORT IRWIN~CA~923105031~~BL~LKAT
N1~PO~USBANK~10~PWRTRK
N1~IU~TRANSPORTATION OFFICER~10~W80S4X
N3~NATIONAL TRAINING CENTER FT IRWIN
N3~P.O. BOX 105031 // AFZJ-MCT-F
N4~FORT IRWIN~CA~923105000~~BL~LKAT
PER~IO~S. J. MCALLISTER,ACTING CHIEF, TRAN
LX~100
N7~DODX~40170
NA~VT~~~S/N: BMY1226----NONX~CVE YARD
N9~TG~W80WKN92214500AXX
N9~TH~EPLRISM
L5~~M88A1, REC VEH FT MED~U7277917~D
L0~~107840~LB~~~3606.8~E~1~VEH
MEA~~HT~134~IN
MEA~~LN~323~IN
MEA~~WD~144~IN

LX~100
N7~DODX~40170
NA~VT---S/N: BMY1688----NONX~CVE YARD
N9~TG~W80WKN92710003BXX
N9~TH~EPLRISM
L5~~M88A1, REC VEH FT MED~U7277917~D
L0~~107840~LB~~~3606.8~E~1~VEH
MEA~~HT~134~IN
MEA~~LN~323~IN
MEA~~WD~144~IN
LX~100
N7~DODX~40397
NA~VT---S/N: 9B4300-----NONX~CVE YARD
N9~TG~W90NWR91037000XXX
N9~TH~EPLRISM
L5~~M88A1, REC VEH FT MED~U7277917~D
L0~~107840~LB~~~3606.8~E~1~VEH
MEA~~HT~134~IN
MEA~~LN~323~IN
MEA~~WD~144~IN
LX~200
L0~~~~323520~G~~~~~L
LX~200
L0~~~~323520~N~~~~~L
LX~200
L0~~~~323520~FR~~~~~L
LX~400
L7~~UP~500678~~~~~00
L5~~M88A1 RECOVERY VEHICLE~U7277917~D
L0~~323520~LB~323520~FR~~~~~L
L1~~~~0~~~~~I
L3~~~~790200~~~~10820.4~E~2
SE~90~0001
GE~1~468
IEA~1~000000467

Example II – Rail NonHazardous 404 TS with Routing

ST~404~0001
BX~00~R~PP~~UP~L~B
BNX~A~S
M3~R~20000601~1158~ET
N9~BM~G2456081~~19991214~1158~ET
DTM~017~19991229
DTM~196~19991208
N7~DODX~40397~107840~N~~~~~RR~~~~6000
F9~~FORT IRWIN~CA~~~~~880180250
D9~~ANNISTON~AL~~~~~471966250
N1~N1~TRANSPORTATION OFFICER
N3~DEFENSE DISTRIBUTION DEPOT~7 FRANKFORD AVENUE, ATTN: DDAA-T
N4~ANNISTON~AL~362014199~~SL~471966250
N1~SF~MOVEMENT CONTROL CENTER
N3~NATIONAL TRAINING CENTER~BLDG 828
N4~FORT IRWIN~CA~923105000~~SL~880180250
N1~CN~TRANSPORTATION OFFICER
N3~DEF DIST DEPOT, ANNISTON ARMY DEPOT~7 FRANKFORD AVENUE, ATTN: DDAA-T
N4~ANNISTON~AL~362014199
N1~SH~TRANSPORTATION DIVISION
N3~NATIONAL TRAINING CENTER~P.O. BOX 105031 // AFZJ-MCT-F
N4~FORT IRWIN~CA~923105031
N1~PF~USBANK
R2~VCND~1~WEST YERMO
R2~UP~2~KANSAS CITY
R2~NS~3
LX~100
L5~1~RECOVERY VEHICLE,M88A1~1931150~T
L0~1~107840~LB~~~~~1~VEH
PI~CT~500678~TP~~UP~UP~00
SE~35~0001

ST~404~0002
BX~00~R~PP~~UP~L~B
BNX~A~S
M3~R~20000601~1158~ET
N9~BM~G2456081~~19991214~1158~ET
DTM~017~19991229
DTM~196~19991208
N7~DODX~40170~215680~N~~~~~RR~~~~6000
F9~~FORT IRWIN~CA~~~~~880180250
D9~~ANNISTON~AL~~~~~471966250
N1~N1~TRANSPORTATION OFFICER
N3~DEFENSE DISTRIBUTION DEPOT~7 FRANKFORD AVENUE, ATTN: DDAA-T
N4~ANNISTON~AL~362014199~~SL~471966250
N1~SF~MOVEMENT CONTROL CENTER
N3~NATIONAL TRAINING CENTER~BLDG 828
N4~FORT IRWIN~CA~923105000~~SL~880180250
N1~CN~TRANSPORTATION OFFICER
N3~DEF DIST DEPOT, ANNISTON ARMY DEPOT~7 FRANKFORD AVENUE, ATTN: DDAA-T
N4~ANNISTON~AL~362014199
N1~SH~TRANSPORTATION DIVISION
N3~NATIONAL TRAINING CENTER~P.O. BOX 105031 // AFZJ-MCT-F
N4~FORT IRWIN~CA~923105031
N1~UC~US GOVERNMENT
N3~HAWTHORNE ARMY DEPOT~CODE SIOHW-UC
N4~HAWTHORNE~NV~894155000
N1~PF~USBANK
N3~123 MAIN STREET
N4~MINNEAPOLIS~MN~123400
R2~VCND~1~WEST YERMO
R2~UP~2~KANSAS CITY
R2~NS~3
LX~100
L5~1~RECOVERY VEHICLE,M88A1~1931150~T
L0~1~107840~LB~~~~~1~VEH
PI~CT~500678~TP~~UP~UP~00
L5~2~RECOVERY VEHICLE,M88A1~1931150~T
L0~2~107840~LB~~~~~1~VEH
PI~CT~500678~TP~~UP~UP~00
SE~34~0002

EXAMPLE 404 for SHIPMENT with IDLER CARS

ISA*04*SW404 *00* *02*DDOF *01*CSXT
*040907*1602*U*00400*000001278*0*P*|

GS*SR*DDOF*CSXT*20040907*1602*1278*X*005030

ST*404*0001
BX*00*R*PP**CSXT*L*B
BNX*A**S
M3*R*20040907*1537*ET
N9*BM*W37QLQ0011649**20040907*1537*ET
DTM*196*20040907
DTM*002*20040927
N7*DODX*40205*50400*N*****RR
N7*DODX*39825*257300*N*****ID
N7*DODX*37134*257300*N*****ID
F9**INNESS*SC*****447178000
D9**KILEEN*TX*****846177250
N1*N1*TRANSPORTATION OFFICER
N3*BLDG 9630
N4*FT LEWIS*WA*984335000*US*SL*846177250
N1*SF*841ST TRANSPORTATION BATTALION
N3*Wharf A*843-743-0446 X197
N4*Goose Creek--Innis*SC*29445*US*SL*447178000
N1*CN*TRANSPORTATION OFFICER
N3*BLDG 9630
N4*FT LEWIS*WA*984335000*US
N1*SH*SDDC 841ST TRANSPORTATION BATT
N3*ATTN: MTDC-SOC-TMF BLDG 3304*1050 REMOUNT RD
N4*CHARLESTON*SC*29406*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH
R2*BNSF*1
H3*405
LX*100
L5*1*Military Impedimenta, camequipage, subsistence/me*4111710*T
L0*1***50400*B***1*VOC**L
PI*CT*999999*TP**CSXT*CSXT*00
SE*33*0001

GE*19*1278
IEA*1*000001278

SAMPLE TRANSACTIONS FOR CONTAINERIZED INTERMODAL SHIPMENTS

ISA*04*SW404 *00* *02*DDOF *01*CSXT
*040729*1432*U*00400*000001217*0*P*|
GS*SR*DDOF*CSXT*20040729*1432*1217*X*005030
ST*404*0001
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000101*6720*N*****CN
NA***DODX*40400
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0001
ST*404*0002
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000105*6720*N*****CN
NA***DODX*40400
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250

N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0002
ST*404*0003
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000107*6720*N*****CN
NA***DODX*40400
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60

R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0003
ST*404*0004
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000102*6720*N*****CN
NA***DODX*42138
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0004
ST*404*0005

BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000104*6720*N*****CN
NA***DODX*42138
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0005
ST*404*0006
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000105*6720*N*****CN
NA***DODX*42138
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250

N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0006
ST*404*0007
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000106*6720*N*****CN
NA***DODX*42138
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1

LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0007
ST*404*0008
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000067*6720*N*****CN
NA***DODX*42340
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0008
ST*404*0009
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000101*6720*N*****CN

NA***DODX*42340
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0009
ST*404*0010
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000100*6720*N*****CN
NA***DODX*42340
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK

N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*5920***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0010
ST*404*0011
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000106*6720*N*****CN
NA**DODX*42340
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218

LH6*CURTIS FULLWOOD
SE*44*0011
ST*404*0012
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000106*6720*N*****CN
NA***DODX*48767
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0012
ST*404*0013
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000108*6720*N*****CN
NA***DODX*48767
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335

N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0013
ST*404*0014
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000104*6720*N*****CN
NA***DODX*48767
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T

L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0014
ST*404*0015
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000108*6720*N*****CN
NA***DODX*48767
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0015
ST*404*0016
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET

DTM*196*20040802
DTM*002*20040820
N7*USFU*000065*6720*N*****CN
NA***DODX*48792
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0016
ST*404*0017
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000078*6720*N*****CN
NA***DODX*48792
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP

N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0017
ST*404*0018
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000102*6720*N*****CN
NA***DODX*48792
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D

LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0018
ST*404*0019
BX*00*X*PP**CSXT*L*B
BNX*A**S
M3*R*20040729*1420*ET
N9*BM*W36QLP0002595**20040729*1420*ET
DTM*196*20040802
DTM*002*20040820
N7*USFU*000104*6720*N*****CN
NA***DODX*48792
F9**LELAND*NC*****409469250
D9**DEFENSE*TX*****661157250
N1*N1*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US*SL*661157250
PER*NT*TRANSPORTATION OFFICER*TE*9033342335
N1*SF*597TH TRANSPORTATION TERM GP
N3*6280 SUNNY POINT ROAD*INTERSECTION HWY 87 AND 133
N4*SOUTHPORT*NC*284615000*US*SL*409469250
N1*CN*RED RIVER ARMY DEPOT
N3*WEST GATE 44, HWY 82
N4*TEXARKANA*TX*775075000*US
N1*SH*597TH TRANSPORTATION TERM GP
N3*ATTN: MOTSC-SO*6280 SUNNY POINT RD
N4*SOUTHPORT*NC*284615000*US
N1*PF*U.S. BANK - POWER TRACK
N3*1010 SOUTH 7TH STREET
N4*MINNEAPOLIS*MN*55415
R2*CSXT*S*MEMPH**60
R2*UP*1
H3*405
LX*100
L5*1*Ammo/Expl/FrWrks/Chem Mun,noibn/noi, Class 1, Divs*1991151*T
L0*1***6720*B***8*PLT**L
PI*CT*200402*TP**CSXT*CSXT*00
LS*1
LH1*PL*8*UN0181**1991151*LB*6720***II
LH2*1.1E*P
LH3*ROCKETS, WITH BURSTING CH*D
LH3*ARGE*D
LHR*1I*PB68
LE*1
PER*HM**TE*7036970218
LH6*CURTIS FULLWOOD
SE*44*0019
GE*19*1217
IEA*1*000001217

Example 404 with Conventional Railcar Shipments

ISA*00* *00* *01*DDOF *01*WSOR
*051130*0931*U*00400*000000010*0*P*|
GS*SR*DDOF*WSOR*20051130*0931*10*X*005030
ST*404*0001
BX*00*R*PP**WSOR*L*B
BNX*A**S
M3*R*20051130*0902*ET
N9*BM*S1403A0023374**20051130*0902*ET
DTM*196*20051202
DTM*002*20051215
N7*ITTX*930341*64940*N*****RR
F9**OSHKOSH*WI*****331560000
D9**PORT HUENEME*CA*****884169290
N1*N1*COMMANDING OFFICER
N3*NAVAL CONSTRUCTION BATALLION CEN*1000 23RD AVE BLDG 801 N4*PORT
HUENEME*CA*930434301*USA*SL*884169290
PER*NT*TRANSPORTATION OFFICER*TE*8057971423 N1*SF*OSHKOSH TRUCK CORP.
N3*20TH AVE FACILITY*339 W. 20TH AVENUE
N4*OSHKOSH*WI*54902*USA*SL*331560000
N1*CN*COMMANDING OFFICER
N3*NAVAL CONSTRUCTION BATALLION CEN*1000 23RD AVE BLDG 801 N4*PORT
HUENEME*CA*930434301*USA N1*SH*OSHKOSH TRUCK CORP.
N3*20TH AVE FACILITY*339 W. 20TH AVENUE
N4*OSHKOSH*WI*54902*USA
N1*PF*PowerTrack, U.S. Bank
N3*EP-MN-L27C*200 South Sixth Street
N4*MINNEAPOLIS*MN*55402
R2*WSOR*S
H3*405
LX*100
L5*1*Vehicles Motor Freight, Including Tractors (Driving*3711972*T
L0*1***64940*B***2*VEH**L PI*CT*500107*TP**WSOR*WSOR*00
SE*33*0001
GE*1*10
IEA*1*000000010

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Section 6.0

APPLICATION CODE LISTS

This section contains code lists that are maintained by the Department of Defense for formatting rail carrier shipment information data to the ASC X12 Transaction Set 404.

[36-01] - Accessorial/Protective Service Code

404 Mapping: 1 520 H301 152

Accessorial Services for Rail Shipments

DoD Code	X12 Code	DoD Definition
	405 *	Fuel Surcharge Authorized <i>X12 Definition: Fuel Surcharge</i> <i>Note: 4/6/2001 Code value added per SDDC guidance. Migration code for DE 152.</i>
	AGS	Rail Armed Guard Surveillance Service <i>X12 Definition: Armed Guard Service</i> <i>Note: 1/30/2003 CHANGE NOTE: Code value added per DM #572.</i>
	IS	Greater Security Service <i>X12 Definition: Surveillance Service</i> <i>Note: 1/30/2003 CHANGE NOTE: Code value added per DM #572.</i>
	RS	Rail Inspection Service <i>X12 Definition: Inspect Hourly if Car Stopped</i> <i>Note: 1/30/2003 CHANGE NOTE: Code value added per DM #572.</i>
AA	AAS	Attendants Accompanying
BB	BLK	Blocking and Bracing
CG	CCS	Carrier Caboose
CG	CGC	Carrier Guard Car Service
CG	CGR	Government Caboose/Guard Cars Returned <i>X12 Definition: Return Carrier Guard Car Service</i>
CG	CSP	Government Caboose Charge <i>X12 Definition: Government Caboose</i>
CG	GSP	Government Guard Car <i>Note: 7/12/2001 CHANGE NOTE: Code value added per SDDC guidance.</i>
GS	GSS	Greater Security Service
HW	HW	High Wide Load <i>Note: 4/6/2001 CHANGE NOTE: Code value added per SDDC guidance. Migration code for DE 0532</i>
RG	ARG	Rail Armed Guard Service
RI	RIS *	Rail Inspection Service <i>Note: 4/6/2001 CHANGE NOTE: 'RIS' replaces 'RMS' per DMs #405 and #432</i>
RV	RLS	Relocation of Vehicle
SS	SFT	Special Train Service <i>X12 Definition: Special Train Movement</i>

[37-01] - Rail Service Rule Code

404 Mapping: 1 530 PS01 746

If unknown use 800 for Intermodal or 705 for Carload Frozen or 710 for Carload Non-frozen

X12 Code	DoD Definition
226	Stop for icing
240	Initially iced by shipper - Do not re-ice
242	Top Iced by shipper at origin
245	Precooled and preiced by shipper - Do not re-ice
509	Modified Carrier's Protective Service (Intrastate only)
510	Shipper's Protective Service
515	Carrier's Protective Service
580	Special heater protective service
705	Optimum temperature of zero degrees or less
710	Optimum temperature above zero degrees
711	Place under modified MPS at fires regular inspection station
712	Shipper's specified MPS at origin or stop point
715	Optimum temperature of zero degrees or less (Car owned/Leased by shipper)
720	Do not operate unit
765	Optimum temperature above zero degrees - Body iced by shipper
800	Intermodal
805	Optimum temperature above zero degrees
810	Ventilators opened at origin
830	Optimum temperature of zero degrees or less

[40-09] - Packaging Form Code

404 Mapping: 2 145 L009 211

[43-01] - HAZMAT - Unit Of Measure Code

404 Mapping: 2 170 LH101 355

[43-06] - HAZMAT - Unit Of Measure Code

404 Mapping: 2 170 LH106 355

DoD Code	X12 Code	DoD Definition	LH101 Value [43-01 Index]	LH106 Value [43-06 Index]
AB	MSV	MSCVAN <i>X12 Definition: MSCVAN - Military Sealift Command Van</i>	CH	
BD	BDL	Bundle	BD	
BE	BAL	Bale	BA	
BG	BAG	Bag, burlap or cloth <i>X12 Definition: Bag</i>	BG	
BL	BBL	Barrel	BR	
BS	BSK	Basket <i>X12 Definition: Basket or hamper</i>	BS	
BX	BOX	Box	BX	
CA	CAB	Cabinet		
CB	CBY	Carboy	CB	
CC	CNA	HHG containers, wood <i>X12 Definition: Household Goods Containers</i>	CH	CH
CL	COL	Coil	CX	
CM	CNB	Container, MAC-ISO, lt. wgt. 8x8x20 foot air <i>X12 Definition: Container</i>	CH	CH
CN	CAN	Can	CN	
CO	CNT	Container, other than CC, CM, CU, CW, MW, MX <i>X12 Definition: Container</i>	CH	CH
CR	CRT	Crate	CP	CP
CS	CAS	Case	CA	
CT	CTN	Carton	CT	CT
CU	CNC	Container, Navy cargo transporter <i>X12 Definition: Container</i>	CH	CH
CW	CND	Container, commercial highway lift <i>X12 Definition: Container</i>	CH	CH
CY	CYL	Cylinder	CL	CL
DB	DUF	Dufflebag <i>X12 Definition: Duffle Bag</i>		

DoD Code	X12 Code	DoD Definition	LH101 Value [43-01 Index]	LH106 Value [43-06 Index]
DR	DRM	Drum	DR	DR
EC	CNE	Engine container	CH	CH
ED	CRD	Engine cradle or dolly <i>X12 Definition: Cradle</i>		
EN	ENV	Envelope	EV	EV
FK	TRK	Footlocker (Trunk) <i>X12 Definition: Trunk and Chest</i>		
HA	HPR	Hamper		
KE	KEG	Keg	KE	KE
LP	PLL *	463L Air Pallet	PF	PF
LS	LSE	Loose, not packed <i>X12 Definition: Loose</i>		
MW	CNF	Multiwall container secured to warehouse plt <i>X12 Definition: Multiwall Container Secured to Warehouse Pallet</i>	CH	CH
MX	MXD	Mixed <i>X12 Definition: Mixed Type Pack</i>		
PC	PCS	Piece <i>X12 Definition: Pieces</i>	PC	PC
PL	PAL	Pail	PA	PA
PT	PLT	Palletized unit load other than code MW <i>X12 Definition: Pallet</i>	PL	PL
RL	REL	Reel	RE	RE
RO	ROL	Roll	RL	RL
RT	WHE	RORO (roll-off, roll-on) <i>X12 Definition: On Own Wheel</i>		
SA	SAK	Sack, paper <i>X12 Definition: Sack</i>	SJ	SJ
SB	SKE	Skid, box <i>X12 Definition: Skid</i>		
SD	SKD	Skid	SV	SV
SH	SHT	Sheet	SH	SH
SL	SPL	Spool	SO	SO
SW	SCS	Suitcase		
TB	TUB	Tub		
TC	TKR	Tank Car	TK	TK
TK	TRU	Truck	TK	
TT	TKT	Tank Truck	TK	TK
TU	TBE	Tube	TB	TB
UX	UNT	Unitized (use RT for unitized cargo on RORO) <i>X12 Definition: Unit</i>		

DoD Code	X12 Code	DoD Definition	LH101 Value [43-01 Index]	LH106 Value [43-06 Index]
VC <i>X12 Definition:</i>	VPK <i>Van Pack</i>	Van chassis <i>Van Pack</i>		
VE	VEH	Vehicle	NV	NV
VO	VOC	Vehicle in Operating Condition	ZZ	ZZ
VS <i>X12 Definition:</i>	TBN <i>Tote Bin</i>	SEAVAN - TOTE <i>Tote Bin</i>	TE	TE
WR	WRP	Wrapped	WR	WR
X1 <i>X12 Definition:</i>	CNX <i>CONEX - Container Express</i>	CONEX (Gov't owned container) <i>CONEX - Container Express</i>	CH	CH
YB <i>X12 Definition:</i>	MLV <i>MILVAN - Military Van</i>	MILVAN <i>MILVAN - Military Van</i>	CH	
ZB <i>X12 Definition:</i>	SVN <i>SEAVAN - Sea Van</i>	SEAVAN <i>SEAVAN - Sea Van</i>	CH	CH

Section 9.0

ADDITIONAL INFORMATION FOR THE DEVELOPER

This section provides additional programming information.

Development History

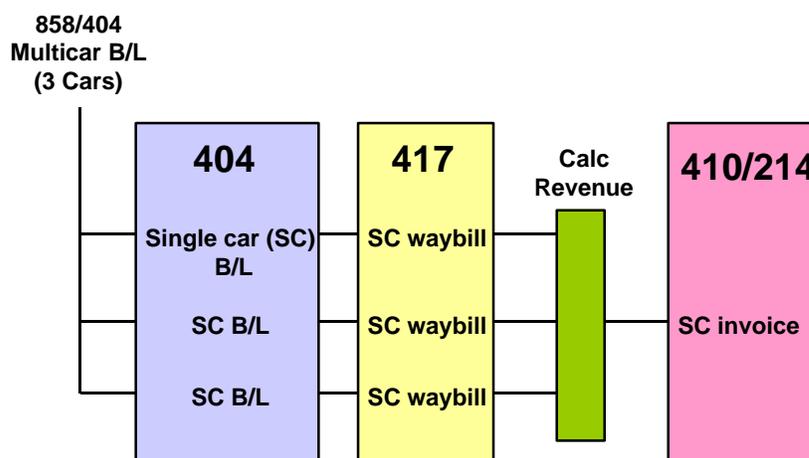
The Management Reform Memorandum (MRM) #15 Rail Working Group met over the months of February to May 2000 to discuss the generation of an Implementation Convention for the Rail 404. This section describes the various issues and problems that arose during these meetings and their proposed resolution.

Business Practices

GBL TO RAIL BILL TO SHIP STATUS

Figure 9.1 describes the process information takes from a commercial bill of lading to shipment status. A multi-car bill of lading turns into 404s for each car. The rail carrier will submit a single 410/214 for each 858 shipment.

Figure 9.1 404 Process Flow Diagram



STOP-OFFS

The Government decided that it would no longer allow stop-offs. There will be a rules publication change through JTMO and an ECP written for CFM. Thus, the S1 loop is not necessary in the 404.

CANCELLATION/CORRECTIONS

The Military Surface Deployment and Distribution Command (MSDDC) will cancel or correct existing 404s in the following manner. Each 404 will be cancelled/changed with a 998. MSDDC will send new 404s to the rail carriers. See the Implementation Convention for the 998 for information regarding the structure of the 998. Figure 9.2 shows an example of this procedure.

Figure 9.2 Cancellations/corrections transmissions



IDLER CARS

The rail industry requires that idler car data appear in a separate N7 segment in the same 404 transaction that contains the shipment data. See Section 5 for an example. Required sections for the Idler Car 404 are shown in Table 9.1

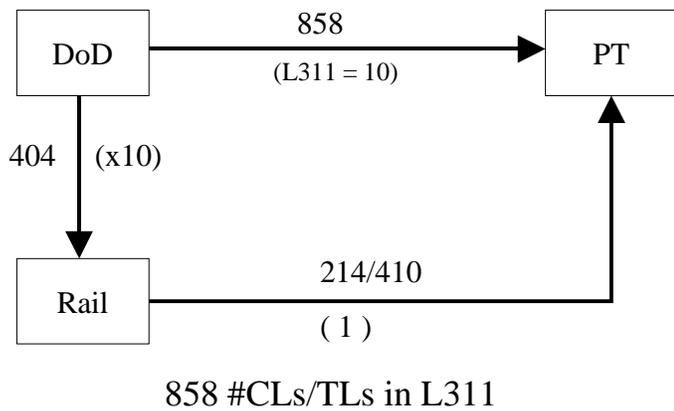
Table 9.1

<u>Segment</u>	<u>Data Required</u>
N701	Initials of idler car
N702	Car number
N711	“ID”
BX01-06	same
BX07	“W”
BNX0	“N”
L503	~ 3742213
L504	“T”

214/410 PROCESS

The Department of Defense (DoD) sends the rail carriers a 404 for each rail car. The DoD also sends to PowerTrack one 858 with data element L311 valued at the number of rail cars. The rail carriers send to PowerTrack a 214/410 for each 858. Figure 9.3 describes the relationship between 858, 404s and 214/410s.

Figure 9.3 Use of L311 by PowerTrack



If PowerTrack needs a car/container count, it can use the L311 segment in the 858.

EDI Technical Practices

SUMMARY MAPPING LOGIC

Figure 9.4 compares the basic schemas of the 858 to the 404. The major difference can be seen in the location of the line item and HAZMAT details.

Figure 9.4 EDI Schemas

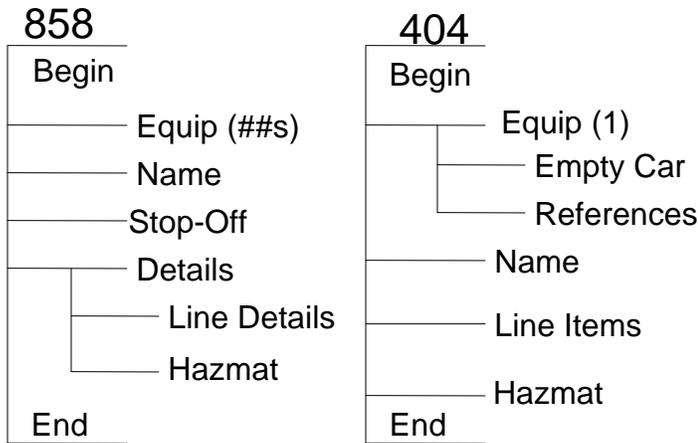
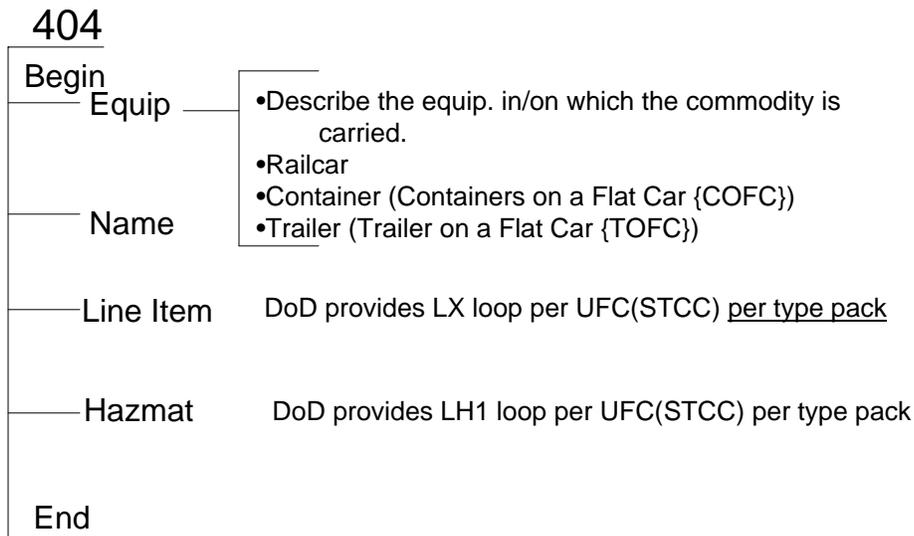


Figure 9.5 describes the summary mapping logic used while preparing this 404 Implementation Convention.

Figure 9.5 Mapping Logic



N7 – EQUIPMENT IDS

Table 9.2 describes the logic that the government will use when describing equipment within the 404.

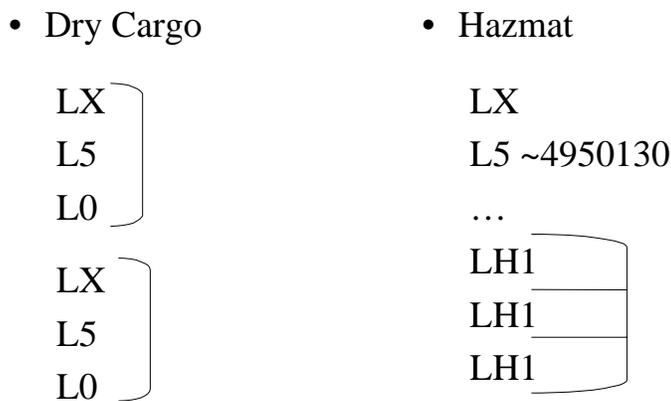
Table 9.2 – N7 Logic

404	TOFC/COFC	Rail Car
N7 =	Trailer/Container	Rail Car (Furnished)
NA =	Flat Car (Furnished)	-----

LINE ITEMS AND HAZMAT

Hazardous materials are placed within their own loop in the 404. For hazardous materials, the L5 segment within the LX loop is given the value “Mixed Hazardous” and the LH1 loops describe the different hazardous materials. Each hazardous commodity has its own LH1 loop. See Figure 9.6 for an example of the line item coding.

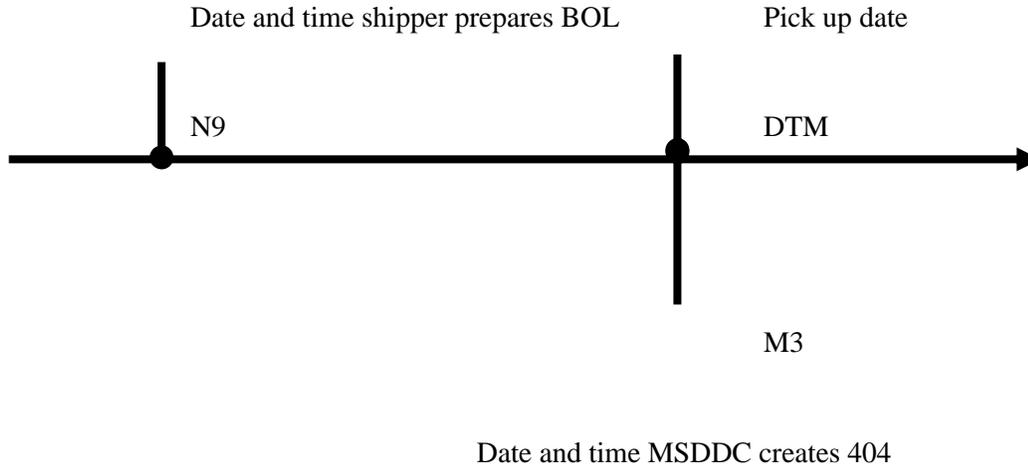
Figure 9.6 – Line Item Example



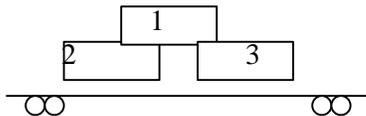
DATES AND TIMES

The rail carriers use three different dates and two different times. Segment M3 contains the release date and time, which the government will generate from the date and time that MSDDC creates the actual 404. Segment N9 contains the date and time the bill of lading was prepared. MSDDC will generate this information based upon the date and time that the shipper prepares the bill of lading. Finally, segment DTM contains the pick-up date that will be mapped from the DoD pick-up date. Figure 9.7 is another description of the procedures.

Figure 9.7 Dates and Times



SPECIAL SERVICES



Special services for flat cars will be only listed in the 404 transaction set for Container #1 and not in the 404 for Containers #2 and #3.

EMPTY HAZARDOUS

If the government is shipping an empty car that previously contained a hazardous substance, they need to report what the last contents were. Including the following information on a 404 can do this:

Segment	Position	Code Required
BNX	01	blank
BX	07	E
L5	04	L
LH1	09	R

R2 ~ UP ~ S ~ MEMPH ~~ 30

R2 ~ CSXT ~ 1

RULE 260

The interchanges stations specified in the R2 routing segment must follow Rule 260. The stations specified in the F9 and D9 segment must contain the full spelling of the station names. A listing of Rule 260 codes may be obtained from the American Association of Railroads at www.aar.org.

TENDER/PRICE AUTHORITY

Price Authority is mapped into the PI segment. This segment is located in the L0 loop and is mapped from the 858 L7 segment. Table 9.3 describes the six elements that are necessary for the PI segment.

Table 9.3

Segment	Contains
PI01	“CT”
PI02	Tender number – numeric only – 6 digits only
PI03	“TP”
PI05	Origin carrier SCAC code
PI06	Alpha part of tender number – prefix stripped from PI02
PI07	Suffix from tender number

An example is as follows and can also be seen in Appendix 5. PI~CT~500113~TP~~BNSF~BNSF~01.