



Department
of
Defense

DoD
Transportation
Electronic Business
(DTEB) Convention

ASC X12 Transaction Set 304
Ocean Carrier Shipping
Instructions (Version 004010)

VERSION 0

February 2010



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CONTENTS

1.0 INTRODUCTION

2.0 CONTROL SEGMENTS

3.0 STANDARD IMPLEMENTATION CONVENTION

4.0 IC ELEMENT MATRIX

5.0 IC ELEMENTS IN EDI FORMAT

6.0 IC CODE LISTS

7.0 RESERVED

8.0 RESERVED

9.0 ADDITIONAL INFORMATION FOR THE DEVELOPER

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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 ocean carrier shipping instructions 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 Defense Transportation community's Electronic Business (DTEB) program, contact the following:

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TCJ6-AD
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For the most recent publication, go

https://cris.transcom.mil/cris/dteb/ic/trans_ics.cfm

[Note: To access publication, you must have an ITS account.]

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. Programmers use this section 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 may 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 4 Release 1 (004010).

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 004010 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 4 Release 1 Standards, Document Number: ASC X12S/97-372*, for complete 004010 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 4010 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 4010 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
			Date in YYMMDD format assigned by translation software	
M	ISA10	I09	Interchange Time Time of the interchange	M DT 4/4
			Time in HHMM format assigned by translation software	
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>
			00401	Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 1997
			Version/release of control segment, as agreed upon by the trading partners	
M	ISA13	I12	Interchange Control Number A control number assigned by the interchange sender	M N0 9/9
			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.	
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
			Send code agreed upon by trading partners.	

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	Date 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)	M DT 8/8
			<u>Date assigned by translation software</u>	
M	GS05	337	Time 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)	M TM 4/8
			<u>Time expressed in HHMM format assigned by translation software</u>	
M	GS06	28	Group Control Number Assigned number originated and maintained by the sender	M N0 1/9
			<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	GS07	455	Responsible Agency Code Code used in conjunction with Data Element 480 to identify the issuer of the standard.	M ID 1/1
			<u>Code</u>	<u>Definition</u>
			X	Accredited Standards Committee X12
M	GS08	480	Version / Release / Industry Identified Code 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.	M AN 6/6
			<u>Code</u>	<u>Definition</u>
			004010	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997
			<u>This is the version/release for all transactions within a functional group. See X12 4010 Dictionary for source code list. Note: optional positions 7- 12 are not used by the DTEB community.</u>	

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 Number of Transaction Sets Included Total number of segments included in a transaction set including ST and SE segments Number assigned by translation software	M N0 1/6
M	GE02	28 Group Control Number Assigned number originated and maintained by the sender Number assigned by the translation software. This control number matches the control number that occurs in GS06.	M N0 1/9

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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 ocean carrier shipping instructions using ASC X12 Transaction Set 304 Shipping Instructions (Version 004010).

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 ASC 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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304 Shipping Instructions

Functional Group ID=**SO**

Introduction:

This Draft Standard for Trial Use provides the format and establishes the data contents of the Shipment Instructions Transaction Set (304) for use within the context of an Electronic Data Interchange (EDI) environment. When this transaction set is transmitted to an ocean carrier, it provides all the information necessary to prepare and distribute a contract of carriage such as an ocean bill of lading, sea waybill, and other shipping documents. When this transaction set is transmitted to a freight forwarder or customs broker, it provides for the transmission of shipping and financial information required by the forwarder or customs broker to move cargo and provide the services requested.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	B2	Beginning Segment for Shipment Information Transaction	M	1		
Must Use	030	B2A	Set Purpose	O	1		
Not Used	040	Y6	Authentication	O	2		
Not Used	050	G1	Shipment Type Information	O	1		
Not Used	060	G2	Beyond Routing	O	1		
Not Used	070	G3	Compensation Information	O	1		
Must Use	080	N9	Reference Identification	O	100		
Not Used	085	YNQ	Yes/No Question	O	10		
	090	V1	Vessel Identification	O	2		
Not Used	100	V3	Vessel Schedule	O	1		
Not Used	110	M0	Letter of Credit Reference	O	1		
Not Used	115	CUR	Currency	O	1		n1
LOOP ID - M1						5	
Not Used	120	M1	Insurance	O	1		
Not Used	125	CUR	Currency	O	1		
Not Used	130	M2	Sales/Delivery Terms	O	1		
Not Used	140	C2	Bank ID	O	1		
Not Used	155	ITD	Terms of Sale/Deferred Terms of Sale	O	1		
Must Use	156	DTM	Date/Time Reference	O	20		
LOOP ID - N1						100	
Must Use	160	N1	Name	O	1		
	170	N2	Additional Name Information	O	2		
	180	N3	Address Information	O	2		
	190	N4	Geographic Location	O	1		
	195	G61	Contact	O	3		
LOOP ID - R4						20	
	200	R4	Port or Terminal	O	1		
Not Used	210	DTM	Date/Time Reference	O	15		
Not Used	216	R2A	Route Information with Preference	O	25		
Not Used	220	R2	Route Information	O	13		
Not Used	230	K1	Remarks	O	12		

Not Used	240	L11	Business Instructions and Reference Number	O	99
Not Used	250	H3	Special Handling Instructions	O	6
Not Used	260	L5	Description, Marks and Numbers	O	999
Not Used	270	X1	Export License	O	25
Not Used	280	X2	Import License	O	5

LOOP ID - C8					20
	290	C8	Certifications and Clauses	O	1
Not Used	295	C8C	Certifications Clauses Continuation	O	5
Not Used	300	SUP	Supplementary Information	O	10

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - LX						999	
Must Use	010	LX	Assigned Number	O	1		
Not Used	020	Y2	Container Details	O	10		
LOOP ID - N7						999	
Must Use	030	N7	Equipment Details	O	1		
Must Use	035	QTY	Quantity	O	1		
Not Used	038	L4	Measurement	O	1		
Not Used	040	N12	Equipment Environment	O	1		
	050	M7	Seal Numbers	O	5		
Not Used	055	M7A	Seal Number Replacement	O	100		
	060	W09	Equipment and Temperature	O	1		
Not Used	062	LH6	Hazardous Certification	O	6		
LOOP ID - L1						20	
Not Used	070	L1	Rate and Charges	O	1		
Not Used	080	CUR	Currency	O	1		
Not Used	100	L7	Tariff Reference	O	1		
Not Used	110	X1	Export License	O	25		
Not Used	120	X2	Import License	O	5		
Not Used	130	N9	Reference Identification	O	100		
LOOP ID - H1						10	
Not Used	135	H1	Hazardous Material	O	1		
Not Used	137	H2	Additional Hazardous Material Description	O	10		
LOOP ID - LH1						100	
Not Used	140	LH1	Hazardous Identification Information	O	1		
Not Used	141	LH2	Hazardous Classification Information	O	4		n2
Not Used	142	LH3	Hazardous Material Shipping Name	O	10		
Not Used	143	LFH	Freeform Hazardous Material Information	O	25		
Not Used	144	LEP	EPA Required Data	O	3		
Not Used	145	LH4	Canadian Dangerous Requirements	O	1		
Not Used	146	LHT	Transborder Hazardous Requirements	O	3		
Not Used	147	LHR	Hazardous Material Identifying Reference Numbers	O	5		
Not Used	148	PER	Administrative Communications Contact	O	5		
Not Used	151	L11	Business Instructions and Reference Number	O	100		
Not Used	160	K1	Remarks	O	10		
LOOP ID - PO4						100	
Not Used	162	PO4	Item Physical Details	O	1		n3
Not Used	164	MEA	Measurements	O	5		

Not Used	166	MAN	Marks and Numbers	O	5	
Not Used	168	N9	Reference Identification	O	5	
LOOP ID - L0					120	
Must Use	170	L0	Line Item - Quantity and Weight	O	1	
Not Used	171	MEA	Measurements	O	10	
LOOP ID - PO4					100	
	172	PO4	Item Physical Details	O	1	n4
	173	MEA	Measurements	O	5	
Not Used	174	MAN	Marks and Numbers	O	5	
Not Used	175	N9	Reference Identification	O	5	
Not Used	176	QTY	Quantity	O	5	n5
	177	L4	Measurement	O	1	
Not Used	178	LH6	Hazardous Certification	O	6	
LOOP ID - PAL					3	
Not Used	179	PAL	Pallet Information	O	1	
Not Used	181	QTY	Quantity	O	1	
LOOP ID - CTP					1	
Not Used	183	CTP	Pricing Information	O	1	
Not Used	184	CUR	Currency	O	1	
	185	L5	Description, Marks and Numbers	O	999	
Not Used	187	LIN	Item Identification	O	1	
	190	L12	Alternate Lading Description	O	20	
	195	N9	Reference Identification	O	100	
Not Used	197	YNQ	Yes/No Question	O	10	
LOOP ID - L1					20	
Not Used	200	L1	Rate and Charges	O	1	
Not Used	210	CUR	Currency	O	1	
Not Used	230	L7	Tariff Reference	O	1	
LOOP ID - SAC					10	
Not Used	235	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
Not Used	236	CUR	Currency	O	1	
LOOP ID - L9					10	
Not Used	237	L9	Charge Detail	O	1	
Not Used	238	CUR	Currency	O	1	
Not Used	240	X1	Export License	O	25	
Not Used	250	X2	Import License	O	5	
LOOP ID - C8					20	
Not Used	260	C8	Certifications and Clauses	O	1	
Not Used	261	C8C	Certifications Clauses Continuation	O	5	
Not Used	265	SUP	Supplementary Information	O	10	
LOOP ID - H1					10	
Not Used	270	H1	Hazardous Material	O	1	
Not Used	280	H2	Additional Hazardous Material Description	O	10	
LOOP ID - LH1					1	
	290	LH1	Hazardous Identification Information	O	1	
	300	LH2	Hazardous Classification Information	O	4	n6
Not Used	310	LH3	Hazardous Material Shipping Name	O	10	
Not Used	320	LFH	Freeform Hazardous Material Information	O	25	

Not Used	330	LEP	EPA Required Data	O	3
Not Used	340	LH4	Canadian Dangerous Requirements	O	1
Not Used	350	LHT	Transborder Hazardous Requirements	O	3
Not Used	360	LHR	Hazardous Material Identifying Reference Numbers	O	5
Not Used	370	PER	Administrative Communications Contact	O	5
LOOP ID - N1					10
	380	N1	Name	O	1
	390	N2	Additional Name Information	O	2
	400	N3	Address Information	O	2
	410	N4	Geographic Location	O	1
	420	G61	Contact	O	3

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - L3						1	
Must Use	010	L3	Total Weight and Charges	O	1		
Not Used	011	CUR	Currency	O	1		
Not Used	015	MEA	Measurements	O	5		
Not Used	020	PWK	Paperwork	O	50		
Not Used	025	SUP	Supplementary Information	O	999		
LOOP ID - L1						20	
Not Used	030	L1	Rate and Charges	O	1		
Not Used	040	CUR	Currency	O	1		
LOOP ID - TDS						1	
Not Used	042	TDS	Total Monetary Value Summary	O	1		
Not Used	043	CUR	Currency	O	1		
LOOP ID - SAC						10	
Not Used	044	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
Not Used	045	CUR	Currency	O	1		
LOOP ID - L9						10	
Not Used	046	L9	Charge Detail	O	1		
Not Used	047	CUR	Currency	O	1		
Not Used	048	ISS	Invoice Shipment Summary	O	5		
Not Used	050	V9	Event Detail	O	10		
Not Used	060	K1	Remarks	O	999		
Not Used	070	L11	Business Instructions and Reference Number	O	24		
M	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The currency specified at this position will be in effect for all monetary values except those accompanied by a currency segment. If any other currency segments are transmitted, they will apply to the loop in which they occur.
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. The PO4 loop may be used to transmit layered packaging information. The use of the PO4 loop in Table 2 Position 162 is mutually exclusive with the use of the PO4 loop in Table 2 Position 172 in a single iteration of the LX loop.
4. The PO4 loop may be used to transmit layered packaging information. The use of the PO4 loop in Table 2 Position 172 is mutually exclusive with the use of the PO4 loop in Table 2 Position 162 in a single iteration of the LX loop.
5. The lading quantity of principal interest to the parties exchanging information is transmitted in the LO segment. The quantity ordered and other pertinent lading quantities are to be transmitted in the QTY segments in the LO loop.
6. 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: 010
Loop:
Level: Heading
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 - Ocean Carrier Shipping Instructions Header

Data Element Summary

Ref.	Data Element	Name	Attributes
M	ST01	143 Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		[1-01] Transaction Set Identifier Code	
		304 Shipping Instructions	
		[1-01] Shipping Instructions	
M	ST02	329 Transaction Set Control Number	M AN 4/9
		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	
		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.)	

Segment: **B2** Beginning Segment for Shipment Information Transaction
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit basic data relating to shipment information
Syntax Notes:
Semantic Notes:

- 1 B202 contains the Standard Carrier Alpha Code (SCAC) of the carrier that will receive the bill of lading.
- 2 If B211 is used, B206 will indicate the party or parties responsible for payment of the transportation terms identified in B211.

Comments:

- 1 B202 is mandatory for transaction set 204.
- 2 B209 is mandatory for rail transactions.

Notes: [2] B2 SEGMENT - Shipment Identification Number

Data Element Summary

Ref.	Data Des.	Element	Name	Attributes
	B201	375	Tariff Service Code Code specifying the types of services for rating purposes [2-01] Tariff Service Code ELEMENT CONDITION: Required for prime vendor shipments. DD Door-to-Door Rate applies for shipments in door-to-door service [2-01] Door-to-Door	O ID 2/2
>>	B202	140	Standard Carrier Alpha Code Standard Carrier Alpha Code [2-02] Standard Carrier Alpha Code SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	O ID 2/4
X	B203	154	Standard Point Location Code	O ID 6/9
	B204	145	Shipment Identification Number Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters) [2-04] Shipper Reference Number For purposes of SDDC's Integrated Booking System, this is a port call file number. ELEMENT CONDITION: Port Call File No. will not exist if the shipper books directly with a carrier. In those situations, do not use this data element; the carriers will key on booking number and container number.	O AN 1/30
X	B205	188	Weight Unit Code	O ID 1/1
	B206	146	Shipment Method of Payment Code identifying payment terms for transportation charges [2-06] Shipment Method of Payment PP Prepaid (by Seller) [2-06] Prepaid (by Seller)	M ID 2/2
X	B207	147	Shipment Qualifier	O ID 1/1
X	B208	86	Total Equipment	O N0 1/3
X	B209	460	Shipment Weight Code	O ID 1/1
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	B210	501	Customs Documentation Handling Code	O ID 2/2

			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	B211	335	Transportation Terms Code	O ID 3/3
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	B212	591	Payment Method Code	O ID 3/3
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **B2A** Set Purpose
Position: 030
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To allow for positive identification of transaction set purpose
Syntax Notes:
Semantic Notes:
Comments:
Notes: [3] B2A SEGMENT - Transaction Set Purpose

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	B2A01	353 Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set	
		[3-01] Transaction Set Purpose Code	
		00 Original	
		[3-01] Original	
		01 Cancellation	
		[3-01] Cancellation	
		05 Replace	
		[3-01] Replace	
	B2A02	346 Application Type	O ID 2/2
		Code identifying an application	
		[3-02] Application Type	
		BL Bill of Lading	
		[3-02] Bill of Lading	
		Use 'BL' to denote Bill of Lading for Prime Vendor Shipments	
		ZZ Mutually Defined	
		[3-02] Mutually Defined	
		Use 'ZZ' to denote Direct Booking Transaction	

Segment: **N9 Reference Identification**
Position: 080
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 100
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:

[4] N9 SEGMENT - Booking Number Information
 SEGMENT CONDITION: Required if Booking Number is available.
 [5] N9 SEGMENT - Container TCN
 This segment stores the TCN for the container.
 [6] N9 SEGMENT - Transportation Tracking Number (TTN)
 SEGMENT CONDITION: Required for unit move cargo when Transportation Tracking Number is applicable.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		[4-01] Booking Number Qualifier	
		[5-01] Container TCN Qualifier	
		[6-01] Transportation Tracking Number (TTN) Qualifier	
		18 Plan Number	
		The unique identification number assigned for a defined contribution plan	
		[6-01] Plan Number	
		Use '18' to denote Transportation Tracking Number (TTN)	
		BN Booking Number	
		[4-01] Booking Number	
		SI Shipper's Identifying Number for Shipment (SID)	
		A unique number (to the shipper) assigned by the shipper to identify the shipment	
		[5-01] Shipper's Identifying Number for Shipment (SID)	
>>	N902	127 Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		[4-02] Booking Number	
		Use booking number.	
		[5-02] Container TCN	
		[6-02] Transportation Tracking Number (TTN)	
X	N903	369 Free-form Description	X AN 1/45
X	N904	373 Date	O DT 8/8
X	N905	337 Time	X TM 4/8
X	N906	623 Time Code	O ID 2/2
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	N907	C040 Reference Identifier	O
		To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	

X	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 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 004010 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 Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **V1** Vessel Identification
Position: 090
Loop:
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To provide vessel details and voyage number
Syntax Notes: 1 At least one of V101 or V102 is required.
2 If V108 is present, then V101 is required.
Semantic Notes: 1 V103 is the code identifying the country in which the ship (vessel) is registered.
2 V105 identifies the ocean carrier.
Comments:
Notes: [7] V1 SEGMENT - Vessel
SEGMENT CONDITION: Required if Vessel Information from booking is available.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
V101	597	Vessel Code		X ID 1/8
		Code identifying vessel		
		[7-01] Vessel Code		
		Lloyd's Code/Radio Call Sign.		
		ELEMENT CONDITION: Required for prime vendor shipments. Not required for direct booking.		
		SOURCE: Lloyd's Register of Shipping		
	V102	182 Vessel Name		X AN 2/28
		Name of ship as documented in "Lloyd's Register of Ships"		
		[7-02] Vessel Name		
		SOURCE: Lloyd's Register of Shipping		
X	V103	26 Country Code		O ID 2/3
	V104	55 Flight/Voyage Number		O AN 2/10
		Identifying designator for the particular flight or voyage on which the cargo travels		
		[7-04] Commercial Voyage Number		
X	V105	140 Standard Carrier Alpha Code		O ID 2/4
X	V106	249 Vessel Requirement Code		O ID 1/1
		Refer to 004010 Data Element Dictionary for acceptable code values.		
X	V107	854 Vessel Type Code		O ID 2/2
		Refer to 004010 Data Element Dictionary for acceptable code values.		
	V108	897 Vessel Code Qualifier		O ID 1/1
		Code specifying vessel code source		
		[7-08] Vessel Code Qualifier		
		ELEMENT CONDITION: Required for prime vendor shipments.		
		C Ship's Radio Call Signal		
		[7-08] Ship's Radio Call Signal		
		L Lloyd's Register of Shipping		
		[7-08] Lloyd's Register of Shipping		
X	V109	91 Transportation Method/Type Code		O ID 1/2
		Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **DTM** **Date/Time Reference**
Position: 156
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 20
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: [8] DTM SEGMENT - Required Date of Delivery

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 Code specifying type of date or time, or both date and time [8-01] Date/Time Qualifier 106 Required By [8-01] Required By	M ID 3/3
>>	DTM02	373	Date Date expressed as CCYYMMDD [8-02] Date	X DT 8/8
X	DTM03	337	Time	X TM 4/8
X	DTM04	623	Time Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	DTM05	1250	Date Time Period Format Qualifier Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	DTM06	1251	Date Time Period	X AN 1/35

Segment: **N1** Name

Position: 160

Loop: N1 Optional (Must Use)

Level: Heading

Usage: Optional (Must Use)

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:

[9] N1 SEGMENT - Destination This loop calls for N1, N2, N3, and N4 segments. For DoD shippers use the TAC2 freight address.

[14] N1 SEGMENT - Origin This loop calls for N1, N2, N3, and N4 segments.

[18] N1 SEGMENT - Shipper This loop calls for N1, N2, N3, and N4 loops.
LOOP CONDITION: Required if Shipper information is known.

[22] N1 SEGMENT - Consignee This loop calls for N1, N2, N3, and N4 segments.
LOOP CONDITION: Required if Consignee information is available.

[26] N1 SEGMENT - Payer Entity
This loop calls for a single N1 segment. It identifies the entity who is responsible for remitting payment to the carriers.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		[9-01] Destination Identifier Code	
		[14-01] Origin Identifier Code	
		[18-01] Shipper Identifier Code	
		[22-01] Consignee Identifier Code	
		[26-01] Payer Identifier Code	
		BT Bill-to-Party	
		[26-01] Bill-to-Party	
		CN Consignee	
		[22-01] Consignee	
		SF Ship From	
		[14-01] Ship From	
		SH Shipper	
		[18-01] Shipper	
		ST Ship To	
		[9-01] Ship To	
	N102	93 Name	X AN 1/60
		Free-form name	
		[9-02] Destination Name	
		Name of party responsible for receiving delivery of shipment.	
		ELEMENT CONDITION: If DoDAAC is not available, this data element is mandatory.	
		[14-02] Origin Name	
		[18-02] Shipper Name	
		[22-02] Consignee Name	
		[26-02] Payer Name	
		Use 'USBank/PowerTrack' in this data element.	

>>	N103	66	Identification Code Qualifier	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			[9-03] Destination Code Qualifier ELEMENT CONDITION: Required if N104 is used.		
			[14-03] Origin Code Qualifier ELEMENT CONDITION: Required for prime vendor shipments.		
			[18-03] Shipper Code Qualifier ELEMENT CONDITION: Required for prime vendor shipments.		
			[22-03] Consignee Code Qualifier Required for prime vendor shipments.		
			[26-03] Payer Account Number Qualifier		
		1	D-U-N-S Number, Dun & Bradstreet		
			[14-03] D-U-N-S Number, Dun & Bradstreet		
			[18-03] D-U-N-S Number, Dun & Bradstreet		
			[22-03] D-U-N-S Number, Dun & Bradstreet		
			[26-03] D-U-N-S Number, Dun & Bradstreet		
		10	Department of Defense Activity Address Code (DODAAC)		
			[9-03] Department of Defense Activity Address Code (DODAAC)		
			[14-03] Department of Defense Activity Address Code (DODAAC)		
			[18-03] Department of Defense Activity Address Code (DODAAC)		
			[22-03] Department of Defense Activity Address Code (DODAAC)		
		33	Commercial and Government Entity (CAGE)		
			[14-03] Commercial and Government Entity (CAGE)		
			[18-03] Commercial and Government Entity (CAGE)		
			[22-03] Commercial and Government Entity (CAGE)		
		PI	Payor Identification		
			[26-03] Payor Identification		
		ZZ	Mutually Defined		
			[14-03] Mutually Defined		
			[18-03] Mutually Defined		
			[22-03] Mutually Defined		
>>	N104	67	Identification Code	X	AN 2/80
			Code identifying a party or other code		
			[9-04] Destination DoDAAC Code that identifies the activity responsible for receiving delivery of shipment. ELEMENT CONDITION: Required for prime vendor shipments.		
			[14-04] Origin DoDAAC/CAGE Identification code of the responsible activity at the pickup location. Required for all DLA prime vendor shipments.		
			[18-04] Shipper Code		
			[22-04] Consignee Code		
			[26-04] Payer Account Number Use USBank's D-U-N-S Number.		
X	N105	706	Entity Relationship Code	O	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	N106	98	Entity Identifier Code	O	ID 2/3
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **N2 Additional Name Information**
Position: 170
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[10] N2 SEGMENT - Destination
 SEGMENT CONDITION: Required if Additional Destination Name applies.
 [15] N2 SEGMENT - Origin
 SEGMENT CONDITION: Required if Origin information is known.
 [19] N2 SEGMENT - Shipper
 SEGMENT CONDITION: Required if additional Shipper Name applies.
 [23] N2 SEGMENT - Consignee
 SEGMENT CONDITION: Required if Additional Consignee name applies.

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
M	N201	93 Name Free-form name	M AN 1/60
		[10-01] Additional Destination Name	
		[15-01] Origin Additional Name	
		[19-01] Shipper Additional Name	
		[23-01] Additional Consignee Name	
X	N202	93 Name	O AN 1/60

Segment: N3 Address Information
Position: 180
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[11] N3 SEGMENT - Destination
 [16] N3 SEGMENT - Origin
 SEGMENT CONDITION: Required if Origin Street Information is known.
 [20] N3 SEGMENT - Shipper
 SEGMENT CONDITION: Required if Shipper Street Address is known.
 [24] N3 SEGMENT - Consignee
 SEGMENT CONDITION: Required if Consignee street address is known.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information [11-01] Destination Street [16-01] Origin Street [20-01] Shipper Street [24-01] Consignee Street	M AN 1/55
	N302	166	Address Information Address information [11-02] Additional Destination Street [16-02] Origin Additional Street [20-02] Shipper Additional Street [24-02] Consignee Additional Street	O AN 1/55

Segment: **N4 Geographic Location**
Position: 190
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
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.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: [12] N4 SEGMENT - Destination
 SEGMENT CONDITION: Required if Destination City, State, and Postal Code is known.
 [17] N4 SEGMENT - Origin
 SEGMENT CONDITION: Required if Origin City, State, and Postal Code is known
 [21] N4 SEGMENT - Shipper
 SEGMENT CONDITION: Required if Shipper City, State, and Postal Code is known.
 [25] N4 SEGMENT - Consignee

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N401	19 City Name	O AN 2/30
		Free-form text for city name	
		[12-01] Destination City	
		[17-01] Origin City	
		[21-01] Shipper City	
		[25-01] Consignee City	
>>	N402	156 State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
		[12-02] Destination State or Province Code	
		SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	
		[17-02] Origin State or Province Code	
		SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	
		[21-02] Shipper State or Province Code	
		SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	
		[25-02] Consignee State or Province Code	
		SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	
>>	N403	116 Postal Code	O ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
		[12-03] Destination Postal Code	
		SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	
		[17-03] Origin Postal Code	
		SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	
		[21-03] Shipper Postal Code	
		SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	

			[25-03] Consignee Postal Code SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	
>>	N404	26	Country Code Code identifying the country	O ID 2/3
			[12-04] Destination Country Code Use ISO Codes for prime vendor shipments. For direct booking use MILSTAMP country codes. SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	
			[17-04] Origin Country Code Use ISO Codes for prime vendor shipments. SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	
			[21-04] Shipper Country Code Use ISO Codes for prime vendor shipments. SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	
			[25-04] Consignee Country Code Use ISO Codes for prime vendor shipments. SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	
X	N405	309	Location Qualifier Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
X	N406	310	Location Identifier	O AN 1/30

Segment: **G61 Contact**
Position: 195
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom communications should be directed
Syntax Notes: 1 If either G6103 or G6104 is present, then the other is required.
Semantic Notes:
Comments: 1 G6103 qualifies G6104.
Notes: [13] G61 SEGMENT - Destination
 SEGMENT CONDITION: Required if point of contact information for the shipment destination applies.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	G6101	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named [13-01] Contact Function Code IC Information Contact [13-01] Information Contact	M ID 2/2
M	G6102	93	Name Free-form name [13-02] Destination Name	M AN 1/60
	G6103	365	Communication Number Qualifier Code identifying the type of communication number [13-03] Destination Communication Number Qualifier ELEMENT CONDITION: Required if G6104 is used. TE Telephone [13-03] Telephone	X ID 2/2
	G6104	364	Communication Number Complete communications number including country or area code when applicable [13-04] Destination Communication Number	X AN 1/80
X	G6105	443	Contact Inquiry Reference	O AN 1/20

Segment: **R4** Port or Terminal
Position: 200
Loop: R4 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: Contractual or operational port or point relevant to the movement of the cargo
Syntax Notes: 1 If either R402 or R403 is present, then the other is required.
Semantic Notes:
Comments: 1 R4 is required for each port to be identified.
Notes: [27] R4 SEGMENT - Port of Embarkation (POE)
 LOOP CONDITION: Required if direct booking transaction.
 [28] R4 SEGMENT - Port of Debarkation (POD)
 LOOP CONDITION: Required if a direct booking transaction.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	R401	Port or Terminal Function Code	M ID 1/1
		Code defining function performed at the port or terminal with respect to a shipment	
		[27-01] POE Qualifier	
		[28-01] POD Qualifier	
		D Port of Discharge (Operational)	
		Port at which cargo is unloaded from vessel	
		[28-01] Port of Discharge (Operational)	
		L Port of Loading (Operational)	
		Port at which cargo is loaded on vessel	
		[27-01] Port of Loading (Operational)	
R402	309	Location Qualifier	X ID 1/2
		Code identifying type of location	
		[27-02] POE Location Qualifier	
		SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)	
		[28-02] POD Location Qualifier	
		ELEMENT CONDITION: Required if R403 is used.	
		SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)	
		D Census Schedule D	
		[27-02] Census Schedule D	
		[28-02] Census Schedule D	
		IM Military Standard Movement Procedures (MILSTAMP)	
		[27-02] Military Standard Movement Procedures (MILSTAMP)	
		[28-02] Military Standard Movement Procedures (MILSTAMP)	
		K Census Schedule K	
		[27-02] Census Schedule K	
		[28-02] Census Schedule K	
R403	310	Location Identifier	X AN 1/30
		Code which identifies a specific location	
		[27-03] POE Location Identifier	
		[28-03] POD Location Identifier	
R404	114	Port Name	O AN 2/24
		Free-form name for the place at which an offshore carrier originates or	

terminates (by transshipment or otherwise) its actual ocean carriage of property

[27-04] POE Name

ELEMENT CONDITION: Element required if a direct booking transaction.

[28-04] POD Name

ELEMENT CONDITION: Element required if a direct booking transaction.

R405 **26** **Country Code** **O ID 2/3**

Code identifying the country

[27-05] POE Country Code

Use ISO Codes for prime vendor shipments.

SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute

[28-05] POD Country Code

Use ISO Codes for prime vendor shipments.

SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute

R406 **174** **Terminal Name** **O AN 2/30**

Free-form field for terminal name

[28-06] POD Terminal Name

R407 **113** **Pier Number** **O AN 1/4**

Identifying number for the pier

[28-07] POD Pier Number

R408 **156** **State or Province Code** **O ID 2/2**

Code (Standard State/Province) as defined by appropriate government agency

[27-08] POE State or Province Code

SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center

[28-08] POD State or Province Code

SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center

Segment: C8 Certifications and Clauses
Position: 290
Loop: C8 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify applicable certifications and clauses
Syntax Notes: 1 At least one of C803 or C802 is required.
Semantic Notes:
Comments:
Notes:

[29] C8 SEGMENT - Certification/Clause Code
 LOOP CONDITION: Required if Certification/Clause Code applies.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
X	C801	213	Lading Line Item Number	O N0 1/3
>>	C802	246	Certification/Clause Code	X ID 2/4
			Code identifying certification/clause information	
			[29-02] Certification/Clause Code	
		01	Shipper's Load and Count	
			[29-02] Shipper's Load and Count	
		CC	Custom	
			[29-02] Custom	
			Use 'CC' to denote Contents Shipped Loose to the Carrier and Stuffed by the Carrier	
X	C803	247	Certification/Clause Text	X AN 2/60
X	C804	1302	Shipper's Export Declaration Requirements	O AN 1/2

Segment: **LX** Assigned Number
Position: 010
Loop: LX Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To reference a line number in a transaction set
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[30] LX SEGMENT - Container Level Information Loop Use additional LX loops when number of line items exceed one hundred (100). Use only one transaction per container. However, if the number of line item TCNs in a container exceeds the 100 maximum allowable occurrences per LX loop, then shippers may repeat the LX loop with the same container data, then follow with the additional line item loops.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	LX01	554	Assigned Number	M N0 1/6

Number assigned for differentiation within a transaction set

[30-01] Assigned Number
 Increment by one for each additional loop.

Segment: N7 Equipment Details
Position: 030
Loop: N7 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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: [31] N7 SEGMENT - Container
Use only one N7 segment for each container (LX loop). Use only one N7 segment for each container (LX loop).

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N701	206 Equipment Initial	O AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number	
		[31-01] Container Initial	
		SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association	
M	N702	207 Equipment Number	M AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
		[31-02] Container Number	
		This is the number that appears on the side of the container. It may include check digits.	
>>	N703	81 Weight	X R 1/10
		Numeric value of weight	
		[31-03] Weight	
		Cargo + Dunnage (does not include weight of container or chassis).	
>>	N704	187 Weight Qualifier	X ID 1/2
		Code defining the type of weight	
		[31-04] Weight Qualifier	
		CE Certified Weight of Cargo	
		[31-04] Certified Weight of Cargo	
X	N705	167 Tare Weight	X N0 3/8
X	N706	232 Weight Allowance	O N0 2/6
X	N707	205 Dunnage	O N0 1/6
>>	N708	183 Volume	X R 1/8
		Value of volumetric measure	
		[31-08] Volume	
		Volume of cargo plus dunnage.	
>>	N709	184 Volume Unit Qualifier	X ID 1/1
		Code identifying the volume unit	
		[31-09] Volume Unit Qualifier	
		E Cubic Feet	
		[31-09] Cubic Feet	
X	N710	102 Ownership Code	O ID 1/1
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	N711	40 Equipment Description Code	O ID 2/2

Code identifying type of equipment used for shipment

[31-11] Equipment Description Code	
ELEMENT CONDITION: Required only for direct booking.	
CJ	Container, Insulated/Ventilated
	[31-11] Container, Insulated/Ventilated
CN	Container
	[31-11] Container
CZ	Refrigerated Container
	[31-11] Refrigerated Container
LS	Half Height Flat Rack
	[31-11] Half Height Flat Rack
	Use 'LS' to denote Flat-rack

X	N712	140	Standard Carrier Alpha Code	O	ID 2/4
X	N713	319	Temperature Control	O	AN 3/6
X	N714	219	Position	O	AN 1/3
	N715	567	Equipment Length	O	N0 4/5

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)

[31-15] Equipment Length	
ELEMENT CONDITION: Required for a direct booking transaction.	

X	N716	571	Tare Qualifier Code	X	ID 1/1
			Refer to 004010 Data Element Dictionary for acceptable code values.		
>>	N717	188	Weight Unit Code	O	ID 1/1

Code specifying the weight unit

[31-17] Weight Unit Qualifier	
Indicates certified weight of cargo in pounds or kilograms.	
K	Kilograms
	[31-17] Kilograms
L	Pounds
	[31-17] Pounds

X	N718	761	Equipment Number Check Digit	O	N0 1/1
X	N719	56	Type of Service Code	O	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	N720	65	Height	O	R 1/8
X	N721	189	Width	O	R 1/8
	N722	24	Equipment Type	O	ID 4/4

Code identifying equipment type

[31-22] Equipment Type	
SOURCE: Identification Marking Code for Freight Containers (ISO 6346-1995) available from American National Standards Institute	

X	N723	140	Standard Carrier Alpha Code	O	ID 2/4
X	N724	301	Car Type Code	O	ID 1/4

Segment: QTY Quantity
Position: 035
Loop: N7 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes: [32] QTY SEGMENT - Shipped Quantity

Data Element Summary

Ref.	Data Element	Name	Attributes
M	QTY01	673 Quantity Qualifier	M ID 2/2
		Code specifying the type of quantity	
		[32-01] Shipped Quantity Qualifier	
		39 Shipped Quantity	
		[32-01] Shipped Quantity	
>>	QTY02	380 Quantity	X R 1/15
		Numeric value of quantity	
		[32-02] Shipped Quantity	
>>	QTY03	C001 Composite Unit of Measure	O
		To identify a composite unit of measure (See Figures Appendix for examples of use)	
		[32-03] Composite Unit of Measure	
M	C00101	355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		[32-03-01] Unit or Basis for Measurement Code	
		By placing an applicable code value (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element.	
		BX Box	
		[32-03-01] Box	
		CA Case	
		[32-03-01] Case	
		PL Pallet/Unit Load	
		[32-03-01] Pallet/Unit Load	
	C00102	1018 Exponent	O R 1/15
		Power to which a unit is raised	
	C00103	649 Multiplier	O R 1/10
		Value to be used as a multiplier to obtain a new value	
	C00104	355 Unit or Basis for Measurement Code	O 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 004010 Data Element Dictionary for acceptable code values.	
	C00105	1018 Exponent	O R 1/15
		Power to which a unit is raised	
	C00106	649 Multiplier	O R 1/10
		Value to be used as a multiplier to obtain a new value	
	C00107	355 Unit or Basis for Measurement Code	O 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 004010 Data Element Dictionary for acceptable code values.	
	C00108	1018	Exponent Power to which a unit is raised	O R 1/15
	C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
	C00110	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 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	C00111	1018	Exponent Power to which a unit is raised	O R 1/15
	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
	C00113	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 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	C00114	1018	Exponent Power to which a unit is raised	O R 1/15
	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
X	QTY04	61	Free-Form Message	X AN 1/30

Segment: M7 Seal Numbers
Position: 050
Loop: N7 Optional (Must Use)
Level: Detail
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: [33] M7 SEGMENT - Seal Number
 SEGMENT CONDITION: Required if Seal Number applies.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	M701	225	Seal Number Unique number on seal used to close a shipment [33-01] Seal Number	M AN 2/15
X	M702	225	Seal Number	O AN 2/15
X	M703	225	Seal Number	O AN 2/15
X	M704	225	Seal Number	O AN 2/15
>>	M705	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual [33-05] Shipper Identifier Code SH Shipper [33-05] Shipper	O ID 2/3

Segment: **W09** Equipment and Temperature
Position: 060
Loop: N7 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To relate equipment type and required temperatures
Syntax Notes: 1 If either W0902 or W0903 is present, then the other is required.
2 If either W0904 or W0905 is present, then the other is required.
Semantic Notes: 1 W0902 is the minimum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0903).
2 W0904 is the maximum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0905).
3 W0906 is used to describe the environment required within an ocean-type, refrigerated container when other than normal air is required.
4 W0908 is the humidity percentage.
5 W0909 is the number of air exchanges per hour.
Comments:
Notes: [34] W09 SEGMENT - Reefer Information
SEGMENT CONDITION: Required if Reefer is used in shipment.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	W0901	40	Equipment Description Code Code identifying type of equipment used for shipment [34-01] Reefer Description Code CJ Container, Insulated/Ventilated [34-01] Container, Insulated/Ventilated CZ Refrigerated Container [34-01] Refrigerated Container	M ID 2/2
>>	W0902	408	Temperature Temperature [34-02] Minimum Temperature	X R 1/4
>>	W0903	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 [34-03] Unit or Basis for Measurement Code CE Centigrade, Celsius [34-03] Centigrade, Celsius FA Fahrenheit [34-03] Fahrenheit	X ID 2/2
>>	W0904	408	Temperature Temperature [34-04] Maximum Temperature	X R 1/4
>>	W0905	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 [34-05] Unit or Basis for Measurement Code CE Centigrade, Celsius [34-05] Centigrade, Celsius FA Fahrenheit [34-05] Fahrenheit	X ID 2/2
X	W0906	3	Free Form Message	O AN 1/60
	W0907	1122	Vent Setting Code	O ID 1/1

Code describing the setting on the air vents on ocean-type containers

[34-07] Vent Setting Code	
A	Vent 25% Open [34-07] Vent 25% Open
B	Vent 50% Open [34-07] Vent 50% Open
C	Vent 75% Open [34-07] Vent 75% Open
D	Vent 100% Open [34-07] Vent 100% Open
E	Closed [34-07] Closed
Z	Carrier to Set Based on Commodity Type [34-07] Carrier to Set Based on Commodity Type

W0908 488 Percent O N0 1/3

Percent expressed as 0 to 100

[34-08] Percent of Humidity Required
Percent humidity - refrigerated.

W0909 380 Quantity O R 1/15

Numeric value of quantity

[34-09] Quantity

Segment: **L0** Line Item - Quantity and Weight
Position: 170
Loop: L0 Optional (Must Use)
Level: Detail
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: [35] L0 SEGMENT - Line Item Level (within container) This loop calls for an L0, L4, L5, and N9 segment. It contains unit of sale multiplied by the order quantity from the vendor's purchase order. This loop occurs at least once for every line item on the vendor's purchase order.

Data Element Summary

Ref.	Data			Attributes
Des.	Element	Name		
L001	213	Lading Line Item Number		O N0 1/3
		Sequential line number for a lading item		
		[35-01] Lading Line Item Number		
		ELEMENT CONDITION: Required for Prime Vendor shipments.		
X	L002	220 Billed/Rated-as Quantity		X R 1/11
X	L003	221 Billed/Rated-as Qualifier		X ID 2/2
		Refer to 004010 Data Element Dictionary for acceptable code values.		
	L004	81 Weight		X R 1/10
		Numeric value of weight		
		[35-04] Weight		
		Weight of the item only; should be equal to or less than the weight of the container. Use L004 and L005 when the shipment is based on pounds.		
	L005	187 Weight Qualifier		X ID 1/2
		Code defining the type of weight		
		[35-05] Weight Qualifier		
		Use L004 and L005 when the shipment is based on pounds.		
		ELEMENT CONDITION: Required if L004 is used.		
		N Actual Net Weight		
		[35-05] Actual Net Weight		
	L006	183 Volume		X R 1/8
		Value of volumetric measure		
		[35-06] Volume		
	L007	184 Volume Unit Qualifier		X ID 1/1
		Code identifying the volume unit		
		[35-07] Volume Unit Qualifier		
		ELEMENT CONDITION: Required if L006 is used.		
		E Cubic Feet		
		[35-07] Cubic Feet		

		S	Measurement Ton	
			[35-07] Measurement Ton	
			Use 'S' to denote Direct Booking	
		X	Cubic Meters	
			[35-07] Cubic Meters	
L008	80	Lading Quantity		X NO 1/7
		Number of units (pieces) of the lading commodity		
		[35-08] Content Pieces Quantity		
		Number of pieces in an individual shipping unit.		
L009	211	Packaging Form Code		X ID 3/3
		Code for packaging form of the lading quantity		
		[35-09] Packaging Form Code		
		AMM	Ammo Pack	
			[35-09] Ammo Pack	
		BAG	Bag	
			[35-09] Bag	
		BAL	Bale	
			[35-09] Bale	
		BBL	Barrel	
			[35-09] Barrel	
		BDL	Bundle	
			[35-09] Bundle	
		BEM	Beam	
			[35-09] Beam	
		BIC	Bing Chest	
			[35-09] Bing Chest	
		BIN	Bin	
			[35-09] Bin	
		BKG	Bulk Bag	
			A large sized flexible, intermediate bulk container; the side walls are flexible; it's made of fabric; when filled, it takes on the shape of what you put inside	
			[35-09] Bulk Bag	
		BLK	Bulk	
			[35-09] Bulk	
		BOB	Bobbin	
			[35-09] Bobbin	
		BOT	Bottle	
			A container having a round neck of relatively smaller diameter than the body with an opening that can be fitted with lid; it does not have a handle	
			[35-09] Bottle	
		BOX	Box	
			[35-09] Box	
		BRG	Barge	
			[35-09] Barge	
		BSK	Basket or hamper	
			[35-09] Basket or hamper	
		BXI	Box, with inner container	
			[35-09] Box, with inner container	
		BXT	Bucket	
			[35-09] Bucket	
		CAB	Cabinet	

	[35-09] Cabinet
CAG	Cage
	[35-09] Cage
CAN	Can
	[35-09] Can
CAR	Carrier
	[35-09] Carrier
CAS	Case
	[35-09] Case
CBC	Containers of Bulk Cargo
	[35-09] Containers of Bulk Cargo
CBY	Carboy
	[35-09] Carboy
CCS	Can Case
	[35-09] Can Case
CHE	Cheeses
	[35-09] Cheeses
CHS	Chest
	[35-09] Chest
CLD	Car Load, Rail
	[35-09] Car Load, Rail
CNA	Household Goods Containers, Wood
	[35-09] Household Goods Containers, Wood
CNB	Container, MAC-ISO (Military Airlift Container - International Standards Organization) Light Weight 8x8x20 Foot Air
	An air container conforming to ISO standards
	[35-09] Container, MAC-ISO (Military Airlift Container - International Standards Organization) Light Weight 8x8x20 Foot Air
CNC	Container, Navy Cargo Transporter
	[35-09] Container, Navy Cargo Transporter
CND	Container, Commercial Highway Lift
	[35-09] Container, Commercial Highway Lift
CNE	Engine Container
	[35-09] Engine Container
CNF	Multiwall Container Secured to Warehouse Pallet
	[35-09] Multiwall Container Secured to Warehouse Pallet
CNT	Container
	[35-09] Container
CNX	CONEX - Container Express
	An 8x8x8-foot container used for packaging and shipping military material
	[35-09] CONEX - Container Express
COL	Coil
	[35-09] Coil
CON	Cones
	[35-09] Cones
COR	Core
	[35-09] Core
CRD	Cradle
	[35-09] Cradle

CRT	Crate [35-09] Crate
CSK	Cask [35-09] Cask
CTN	Carton [35-09] Carton
CUB	Cube A box that has a "bladder" (poly-formed bladder) inside; it has an opening similar to bottle; the interior bladder is flexible not rigid [35-09] Cube
CYL	Cylinder [35-09] Cylinder
DBK	Dry Bulk [35-09] Dry Bulk
DRK	Double-length Rack [35-09] Double-length Rack
DRM	Drum A large container with a cylindrical shape; top may have removable or sealed top sides may be fiberboard or metal [35-09] Drum
DSK	Double-length Skid [35-09] Double-length Skid
DTB	Double-length Tote Bin [35-09] Double-length Tote Bin
DUF	Duffle Bag [35-09] Duffle Bag
ENV	Envelope [35-09] Envelope
FIR	Firkin [35-09] Firkin
FLO	Flo-bin [35-09] Flo-bin
FLX	Liner Bag Liquid A rubber liner used in a standard container for liquid material [35-09] Liner Bag Liquid
FRM	Frame [35-09] Frame
FSK	Flask [35-09] Flask
FWR	Forward Reel [35-09] Forward Reel
GOH	Garments on Hangers [35-09] Garments on Hangers
HED	Heads of Beef [35-09] Heads of Beef
HGH	Hogshead [35-09] Hogshead
HPR	Hamper [35-09] Hamper
HPT	Hopper Truck

	[35-09] Hopper Truck
HRB	On Hanger or Rack in Boxes
	[35-09] On Hanger or Rack in Boxes
HRK	Half-standard Rack
	[35-09] Half-standard Rack
HTB	Half-Standard Tote Bin
	[35-09] Half-Standard Tote Bin
JAR	Jar
	[35-09] Jar
JUG	Jug
	A bottle (usually 1/2 gallon or larger) fitted with a handle
	[35-09] Jug
KEG	Keg
	[35-09] Keg
KIT	Kit
	[35-09] Kit
KRK	Knockdown Rack
	[35-09] Knockdown Rack
KTB	Knockdown Tote Bin
	[35-09] Knockdown Tote Bin
LBK	Liquid Bulk
	[35-09] Liquid Bulk
LIF	Lifts
	[35-09] Lifts
LOG	Log
	[35-09] Log
LSE	Loose
	[35-09] Loose
LUG	Lug
	[35-09] Lug
LVN	Lift Van
	[35-09] Lift Van
MLV	MILVAN - Military Van
	A 20-foot transportation van that conforms to ISO standards
	[35-09] MILVAN - Military Van
MRP	Multi-Roll Pack
	[35-09] Multi-Roll Pack
MSV	MSCVAN - Military Sealift Command Van
	A 35-foot transportation van
	[35-09] MSCVAN - Military Sealift Command Van
MXD	Mixed Type Pack
	[35-09] Mixed Type Pack
NOL	Noil
	[35-09] Noil
OVW	Overwrap
	A cardboard bottom is put down on a pallet; the bags are stacked in layers; the top of the cardboard slides down over the bags to meet the bottom; if any of the bags tear, the product always stays inside the cardboard
	[35-09] Overwrap
PAL	Pail

	[35-09] Pail
PCK	Packed - not otherwise specified
	[35-09] Packed - not otherwise specified
PCS	Pieces
	[35-09] Pieces
PIR	Pims
	[35-09] Pims
PKG	Package
	[35-09] Package
PLF	Platform
	[35-09] Platform
PLN	Pipeline
	[35-09] Pipeline
PLT	Pallet
	[35-09] Pallet
POV	Private Vehicle
	[35-09] Private Vehicle
PRK	Pipe Rack
	[35-09] Pipe Rack
QTR	Quarter of Beef
	[35-09] Quarter of Beef
RAL	Rail (Semiconductor)
	[35-09] Rail (Semiconductor)
RCK	Rack
	[35-09] Rack
REL	Reel
	[35-09] Reel
ROL	Roll
	[35-09] Roll
RVR	Reverse Reel
	[35-09] Reverse Reel
SAK	Sack
	[35-09] Sack
SBC	Liner Bag Dry
	A plastic liner used in container designed for the carriage of dry free-flowing material
	[35-09] Liner Bag Dry
SCS	Suitcase
	[35-09] Suitcase
SHK	Shook
	[35-09] Shook
SHT	Sheet
	[35-09] Sheet
SID	Side of Beef
	[35-09] Side of Beef
SKD	Skid
	[35-09] Skid
SKE	Skid, elevating or lift truck
	[35-09] Skid, elevating or lift truck
SLP	Slip Sheet
	Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or

	transportation
	[35-09] Slip Sheet
SLV	Sleeve
	[35-09] Sleeve
SPI	Spin Cylinders
	[35-09] Spin Cylinders
SPL	Spool
	[35-09] Spool
SVN	SEAVAN - Sea Van
	A commercial or military 40-foot transportation container that conforms to ISO standards
	[35-09] SEAVAN - Sea Van
TBE	Tube
	[35-09] Tube
TBN	Tote Bin
	[35-09] Tote Bin
TKR	Tank Car
	[35-09] Tank Car
TKT	Tank Truck
	[35-09] Tank Truck
TLD	Intermodal Trailer/Container Load (Rail)
	[35-09] Intermodal Trailer/Container Load (Rail)
TNK	Tank
	[35-09] Tank
TRC	Tierce
	[35-09] Tierce
TRI	Triwall Box
	A sturdy box made of three-ply cardboard
	[35-09] Triwall Box
TRK	Trunk and Chest
	[35-09] Trunk and Chest
TRU	Truck
	[35-09] Truck
TRY	Tray
	[35-09] Tray
TSS	Trunk, Salesmen Sample
	[35-09] Trunk, Salesmen Sample
TTC	Tote Can
	A reusable stainless steel container with handles; used for liquid material
	[35-09] Tote Can
TUB	Tub
	[35-09] Tub
UNP	Unpacked
	[35-09] Unpacked
UNT	Unit
	[35-09] Unit
VEH	Vehicles
	[35-09] Vehicles
VPK	Van Pack
	[35-09] Van Pack
WHE	On Own Wheel

				[35-09] On Own Wheel	
			WLC	Wheeled Carrier	
				[35-09] Wheeled Carrier	
			WRP	Wrapped	
				[35-09] Wrapped	
X	L010	458	Dunnage Description		O AN 2/25
	L011	188	Weight Unit Code		O ID 1/1
			Code specifying the weight unit		
			[35-11] Weight Unit Code		
			Use code value 'E' only for a direct booking transaction.		
			ELEMENT CONDITION: Required if L004 is used.		
			E	Metric Ton	
				[35-11] Metric Ton	
			K	Kilograms	
				[35-11] Kilograms	
			L	Pounds	
				[35-11] Pounds	
X	L012	56	Type of Service Code		O ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	L013	380	Quantity		X R 1/15
X	L014	211	Packaging Form Code		O ID 3/3
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	L015	1073	Yes/No Condition or Response Code		X ID 1/1
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **PO4** Item Physical Details

Position: 172

Loop: PO4 Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Syntax Notes:

- 1 If either PO402 or PO403 is present, then the other is required.
- 2 If PO405 is present, then PO406 is required.
- 3 If either PO406 or PO407 is present, then the other is required.
- 4 If either PO408 or PO409 is present, then the other is required.
- 5 If PO410 is present, then PO413 is required.
- 6 If PO411 is present, then PO413 is required.
- 7 If PO412 is present, then PO413 is required.
- 8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
- 9 If PO417 is present, then PO416 is required.
- 10 If PO418 is present, then PO404 is required.

Semantic Notes:

- 1 PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
- 2 PO416 is the package identifier or the beginning package identifier in a range of identifiers.
- 3 PO417 is the ending package identifier in a range of identifiers.
- 4 PO418 is the number of packages in this layer.

Comments:

- 1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
- 2 PO413 defines the unit of measure for PO410, PO411, and PO412.

Notes: [36] PO4 SEGMENT - HAZMAT
LOOP CONDITION: Required for HAZMAT shipment to satisfy X12 syntax.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
>>	PO401	356	Pack	O N0 1/6
			The number of inner containers, or number of eaches if there are no inner containers, per outer container	
			[36-01] Mandatory Element	
X	PO402	357	Size	X R 1/8
X	PO403	355	Unit or Basis for Measurement Code	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	PO404	103	Packaging Code	X AN 3/5
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	PO405	187	Weight Qualifier	O ID 1/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	PO406	384	Gross Weight per Pack	X R 1/9
X	PO407	355	Unit or Basis for Measurement Code	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	PO408	385	Gross Volume per Pack	X R 1/9
X	PO409	355	Unit or Basis for Measurement Code	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	PO410	82	Length	X R 1/8
X	PO411	189	Width	X R 1/8
X	PO412	65	Height	X R 1/8

X	PO413	355	Unit or Basis for Measurement Code	X	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	PO414	810	Inner Pack	O	N0 1/6
X	PO415	752	Surface/Layer/Position Code	O	ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	PO416	350	Assigned Identification	X	AN 1/20
X	PO417	350	Assigned Identification	O	AN 1/20
X	PO418	1470	Number	O	N0 1/9

Segment: **MEA** Measurements

Position: 173

Loop: PO4 Optional

Level: Detail

Usage: Optional

Max Use: 5

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

Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes:

Comments:

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes:

[37] MEA SEGMENT - Net Explosive Weight (English)
SEGMENT CONDITION: Must include this segment for ammunition shipment. Both English and Metric units are required to comply with 49 CFR 171.10.

[38] MEA SEGMENT - Net Explosive Weight (Metric)
SEGMENT CONDITION: Must include this segment for ammunition shipment. Both English and Metric units are required to comply with 49 CFR 171.10.

[39] MEA SEGMENT - Round Count
Include this segment for ammunition shipment to comply with 49 CFR 171.10.
SEGMENT CONDITION: Must include this segment for ammunition shipment to comply with 49 CFR 171.10.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	MEA01	737 Measurement Reference ID Code	O ID 2/2
		Code identifying the broad category to which a measurement applies	
		[37-01] Net Explosive Weight Qualifier	
		[38-01] Net Explosive Weight Qualifier	
		[39-01] Round Count Qualifier	
		CT Counts	
		[39-01] Counts	
		NX Net Explosive Weight	
		[37-01] Net Explosive Weight	
		[38-01] Net Explosive Weight	
X	MEA02	738 Measurement Qualifier	O ID 1/3
		Refer to 004010 Data Element Dictionary for acceptable code values.	
>>	MEA03	739 Measurement Value	X R 1/20
		The value of the measurement	
		[37-03] Net Explosive Weight	
		If net explosive weight is available for an individual line item, carry that weight in this data element. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	
		[38-03] Net Explosive Weight	
		Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	
		[39-03] Round Count	
>>	MEA04	C001 Composite Unit of Measure	X
		To identify a composite unit of measure (See Figures Appendix for examples of use)	
		[37-04] Composite Unit of Measurement Code	
		C00101 calls for an identifier from the DE 355 code list. The element separator	

is not used in this template. Its elements are concatenated together without using a delimiter.
 [38-04] Composite Unit of Measurement Code
 C00101 calls for an identifier from the DE 355 code list. The element separator is not used in this template. Its elements are concatenated together without using a delimiter.
 [39-04] Composite Unit of Measurement Code
 C00101 calls for an identifier from the DE 355 code list. The element separator is not used in this template. Its elements are concatenated together without using a delimiter.

M C00101 355 Unit or Basis for Measurement Code M ID 2/2

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

[37-04-01] Net Explosive Weight Qualifier (English)

Both metric and English units are required to comply with 49 CFR 171.10. If explosive is dry, use code value 'PN'; if wet, use code value 'GA'. By placing these code values (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element.

[38-04-01] Net Explosive Weight Qualifier (Metric)

If explosive is dry, use code value 'KG'; if wet, use code value 'LT'. By placing these code values (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element.

[39-04-01] Round Count Qualifier

By placing code value 'RO' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element.

GA	Gallon
	[37-04-01] Gallon
KG	Kilogram
	[38-04-01] Kilogram
LT	Liter
	[38-04-01] Liter
PN	Pounds Net
	[37-04-01] Pounds Net
RO	Round
	[39-04-01] Round

C00102 1018 Exponent O R 1/15

Power to which a unit is raised

C00103 649 Multiplier O R 1/10

Value to be used as a multiplier to obtain a new value

C00104 355 Unit or Basis for Measurement Code O 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 004010 Data Element Dictionary for acceptable code values.

C00105 1018 Exponent O R 1/15

Power to which a unit is raised

C00106 649 Multiplier O R 1/10

Value to be used as a multiplier to obtain a new value

C00107 355 Unit or Basis for Measurement Code O 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 004010 Data Element Dictionary for acceptable code values.

C00108 1018 Exponent O R 1/15

Power to which a unit is raised

C00109 649 Multiplier O R 1/10

Value to be used as a multiplier to obtain a new value

C00110 355 Unit or Basis for Measurement Code O 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 004010 Data Element Dictionary for acceptable code values.

	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
	C00113	355	Unit or Basis for Measurement Code	O 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 004010 Data Element Dictionary for acceptable code values.	
	C00114	1018	Exponent	O R 1/15
			Power to which a unit is raised	
	C00115	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
X	MEA05	740	Range Minimum	X R 1/20
X	MEA06	741	Range Maximum	X R 1/20
X	MEA07	935	Measurement Significance Code	O ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	MEA08	936	Measurement Attribute Code	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	MEA09	752	Surface/Layer/Position Code	O ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	MEA10	1373	Measurement Method or Device	O ID 2/4
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **L4** Measurement
Position: 177
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe physical dimensions and quantities
Syntax Notes:
Semantic Notes: 1 L406 is the Rounding in Pattern for dimensional shipments.
Comments:

Notes: [40] L4 SEGMENT - Shipping Dimensions for Oversized Cargo
 SEGMENT CONDITION: Required if oversized (usually flat rack or open top) cargo applies. Not needed if shipping a standard 40-foot container.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	L401	82	Length Largest horizontal dimension of an object measured when the object is in the upright position [40-01] Length	M R 1/8
M	L402	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position [40-02] Width	M R 1/8
M	L403	65	Height Vertical dimension of an object measured when the object is in the upright position [40-03] Height	M R 1/8
M	L404	90	Measurement Unit Qualifier Code specifying the linear dimensional unit [40-04] Measurement Unit Qualifier N Inches [40-04] Inches	M ID 1/1
	L405	380	Quantity Numeric value of quantity [40-05] Quantity	O R 1/15
X	L406	1271	Industry Code	O AN 1/30

Segment: **L5** Description, Marks and Numbers
Position: 185
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 999
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: [41] L5 SEGMENT - Description of Articles
 SEGMENT CONDITION: Required if Description of Articles applies.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
L501	213	Lading Line Item Number Sequential line number for a lading item [41-01] Lading Line Item Number	O N0 1/3
>>	L502	79 Lading Description Description of an item as required for rating and billing purposes [41-02] Lading Description Clear text description of the unit of sale being shipped.	O AN 1/50
>>	L503	22 Commodity Code Code describing a commodity or group of commodities [41-03] Commodity Code	X AN 1/30
>>	L504	23 Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code [41-04] Commodity Code Qualifier F National Stock Number [41-04] National Stock Number I Milstamp AITC or Water Commodity Code [41-04] Milstamp AITC or Water Commodity Code Z Mutually defined [41-04] Mutually defined Use 'Z' to denote Commodity Code	X ID 1/1
X	L505	103 Packaging Code Refer to 004010 Data Element Dictionary for acceptable code values.	O AN 3/5
	L506	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment [41-06] Marks and Numbers	X AN 1/48
X	L507	88 Marks and Numbers Qualifier Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2
X	L508	23 Commodity Code Qualifier Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/1
X	L509	22 Commodity Code	X AN 1/30
X	L510	595 Compartment ID Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **L12** Alternate Lading Description
Position: 190
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To provide lading description beyond what is required for rating and billing purposes
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[42] L12 SEGMENT - Additional Remarks
 SEGMENT CONDITION: Two occurrences of this segment are allowed. Not used for prime vendor shipments.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
X	L1201	592	Lading Description Qualifier	O ID 1/1
			Refer to 004010 Data Element Dictionary for acceptable code values.	
>>	L1202	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	
			[42-02] Additional Remarks	
			Free-form text for additional line item remarks or handling instructions.	

Segment: **N9 Reference Identification**
Position: 195
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 100
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: [43] N9 SEGMENT - Vendor Contract Number
SEGMENT CONDITION: Required if Vendor Contract Number applies.
[44] N9 SEGMENT - Line Item TCN
SEGMENT CONDITION: Required if Line Item TCN applies.
[45] N9 SEGMENT - Transportation Tracking Number (TTN)
SEGMENT CONDITION: Required for unit move cargo when Transportation Tracking Number is applicable.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M	N901	128 Reference Identification Qualifier Code qualifying the Reference Identification [43-01] Vendor Contract Number Qualifier [44-01] Line Item TCN Qualifier [45-01] Transportation Tracking Number (TTN) Qualifier	M ID 2/3
		18 Plan Number The unique identification number assigned for a defined contribution plan [45-01] Plan Number Use '18' to denote Transportation Tracking Number (TTN)	
		TG Transportation Control Number (TCN) [44-01] Transportation Control Number (TCN)	
		VC Vendor Contract Number [43-01] Vendor Contract Number	
>>	N902	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [43-02] Vendor Contract Number [44-02] Line Item TCN [45-02] Transportation Tracking Number (TTN)	X AN 1/30
X	N903	369 Free-form Description	X AN 1/45
X	N904	373 Date	O DT 8/8
X	N905	337 Time	X TM 4/8
X	N906	623 Time Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	N907	C040 Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128 Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3

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 004010 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 004010 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: **LH1** Hazardous Identification Information
Position: 290
Loop: LH1 Optional
Level: Detail
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 nonbulk shipments only.
- 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: [46] LH1 SEGMENT - HAZMAT
 LOOP CONDITION: This segment begins the HAZMAT loop, which is included only if the shipment contains hazardous material. The loop may occur only once per line item.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Element</u> LH101	<u>355</u> Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		[46-01] HAZMAT - Unit of Measure Code	
		Contains the code identifying the unit of measure (type of packaging) for which the data in LH102 is reported. Select the appropriate code value from X12 Standard DE 355 for the type of package that contains the items being shipped.	
		01 Actual Pounds	
		[46-01] Actual Pounds	
		02 Statute Mile	
		[46-01] Statute Mile	
		03 Seconds	
		[46-01] Seconds	
		04 Small Spray	
		[46-01] Small Spray	
		05 Lifts	
		[46-01] Lifts	
		06 Digits	
		Expresses a value using total number of digits, e.g., 6 digits	
		[46-01] Digits	
		07 Strand	
		[46-01] Strand	
		08 Heat Lots	
		[46-01] Heat Lots	
		09 Tire	
		[46-01] Tire	
		10 Group	
		[46-01] Group	
		11 Outfit	
		[46-01] Outfit	
		12 Packet	

	[46-01] Packet
13	Ration
	[46-01] Ration
14	Shot
	[46-01] Shot
15	Stick
	[46-01] Stick
16	115 Kilogram Drum
	A cylindrical container whose contents weigh 115 kilograms when full
	[46-01] 115 Kilogram Drum
17	100 Pound Drum
	A cylindrical container whose contents weigh 100 pounds when full
	[46-01] 100 Pound Drum
18	55 Gallon Drum
	A cylindrical container whose volume is equal to 55 gallons
	[46-01] 55 Gallon Drum
19	Tank Truck
	A liquid-carrying highway vehicle whose volume is variable according to the customer's needs and which is used as a measure of goods ordered, sold, and delivered; differs from a tank car which transports liquids by rail
	[46-01] Tank Truck
1A	Car Mile
	One freight car moving one mile
	[46-01] Car Mile
1B	Car Count
	The number of freight cars moving over a specified track
	[46-01] Car Count
1C	Locomotive Count
	The number of locomotives moved over a specified track
	[46-01] Locomotive Count
1D	Caboose Count
	The number of cabooses moved over a specified track
	[46-01] Caboose Count
1E	Empty Car
	Unloaded or empty cars moving over a specified track
	[46-01] Empty Car
1F	Train Mile
	The first locomotive in a train moving one mile
	[46-01] Train Mile
1G	Fuel Usage (Gallons)
	The number of gallons of diesel fuel used to move a train or all trains over specified trackage
	[46-01] Fuel Usage (Gallons)
1H	Caboose Mile
	One caboose moving one mile
	[46-01] Caboose Mile
1I	Fixed Rate
	Indicates a predetermined or set rate for usage of a facility
	[46-01] Fixed Rate

1J	Ton Miles Tons of freight multiplied by the number of times moved; includes non-revenue freight such as material used to maintain trackage and right-of-way [46-01] Ton Miles
1K	Locomotive Mile One locomotive moving one mile [46-01] Locomotive Mile
1L	Total Car Count The sum of cars, locomotives, and cabooses moving over a specified track; the conversion rate for locomotives and cabooses is set by contract [46-01] Total Car Count
1M	Total Car Mile The sum of car miles, locomotive miles, and caboose miles moved over a specified track; the conversion rate for locomotives and cabooses is set by contract [46-01] Total Car Mile
1N	Count [46-01] Count
1O	Season [46-01] Season
1P	Tank Car [46-01] Tank Car
1Q	Frames [46-01] Frames
1R	Transactions [46-01] Transactions
1X	Quarter Mile [46-01] Quarter Mile
20	20 Foot Container A sea-land rectangular container box whose capacity is defined by its longest dimension and by which product shipments are measured and billed [46-01] 20 Foot Container
21	40 Foot Container A sea-land rectangular container box whose capacity is defined by its longest dimension and by which product shipments are measured and billed [46-01] 40 Foot Container
22	Deciliter per Gram Represents viscosity, Cuene intrinsic viscosity, and limit intrinsic viscosity [46-01] Deciliter per Gram
23	Grams per Cubic Centimeter Represents product density [46-01] Grams per Cubic Centimeter
24	Theoretical Pounds [46-01] Theoretical Pounds
25	Grams per Square Centimeter Represents product basis weight [46-01] Grams per Square Centimeter
26	Actual Tons [46-01] Actual Tons

27	Theoretical Tons [46-01] Theoretical Tons
28	Kilograms per Square Meter Represents product basis weight [46-01] Kilograms per Square Meter
29	Pounds per 1000 Square Feet Represents product basis weight [46-01] Pounds per 1000 Square Feet
2A	Radians Per Second Measure of angular velocity [46-01] Radians Per Second
2B	Radians Per Second Squared Measure of angular acceleration [46-01] Radians Per Second Squared
2C	Roentgen Unit of X-radiation or gamma radiation equal to the amount of radiation that produces in one cubic centimeter of dry air at 0 degrees Celsius and standard atmospheric pressure ionization of either sign equal to one electrostatic unit of charge [46-01] Roentgen
2F	Volts Per Meter Measure of electrical field strength [46-01] Volts Per Meter
2G	Volts (Alternating Current) Measure of electrical potential [46-01] Volts (Alternating Current)
2H	Volts (Direct Current) Measure of electrical potential [46-01] Volts (Direct Current)
2I	British Thermal Units (BTUs) Per Hour British thermal units per hour [46-01] British Thermal Units (BTUs) Per Hour
2J	Cubic Centimeters Per Second Rate of flow [46-01] Cubic Centimeters Per Second
2K	Cubic Feet Per Hour Rate of flow [46-01] Cubic Feet Per Hour
2L	Cubic Feet Per Minute Rate of flow [46-01] Cubic Feet Per Minute
2M	Centimeters Per Second Rate of speed [46-01] Centimeters Per Second
2N	Decibels A unit for expressing the relative intensity of sounds on a scale of 0 for the least perceptible sound to about 130 for the average pain level [46-01] Decibels
2P	Kilobyte Unit of computer storage capacity equal to 1000 bytes

	[46-01] Kilobyte
2Q	Kilobecquerel Unit of radiation
	[46-01] Kilobecquerel
2R	Kilocurie Unit of radiation
	[46-01] Kilocurie
2U	Megagram Unit of mass
	[46-01] Megagram
2V	Megagrams Per Hour
	[46-01] Megagrams Per Hour
2W	Bin Storage container used as a unit of measurement
	[46-01] Bin
2X	Meters Per Minute Measure of linear speed
	[46-01] Meters Per Minute
2Y	Milliroentgen Unit of radiation
	[46-01] Milliroentgen
2Z	Millivolts Unit of electrical potential
	[46-01] Millivolts
30	Horsepower Days per Air Dry Metric Tons Represents the energy requirements for processing a product
	[46-01] Horsepower Days per Air Dry Metric Tons
31	Catchweight
	[46-01] Catchweight
32	Kilograms per Air Dry Metric Tons Represents chemical addition rate during product manufacture or chemical addition within the finished product
	[46-01] Kilograms per Air Dry Metric Tons
33	Kilopascal Square Meters per Gram Represents burst index measurement for pulp products
	[46-01] Kilopascal Square Meters per Gram
34	Kilopascals per Millimeter Represents hardness index of pulp products
	[46-01] Kilopascals per Millimeter
35	Milliliters per Square Centimeter Second Represents porosity of a sheet of material
	[46-01] Milliliters per Square Centimeter Second
36	Cubic Feet per Minute per Square Foot Represents porosity of a sheet of material
	[46-01] Cubic Feet per Minute per Square Foot
37	Ounces per Square Foot Represents sheet weight
	[46-01] Ounces per Square Foot
38	Ounces per Square Foot per 0.01 Inch Represents sheet density

	[46-01] Ounces per Square Foot per 0.01 Inch
39	Basis Points
	[46-01] Basis Points
3B	Megajoule
	Unit of energy or heat
	[46-01] Megajoule
3C	Manmonth
	Measure of work output by a single person during a typical work month
	[46-01] Manmonth
3E	Pounds Per Pound of Product
	[46-01] Pounds Per Pound of Product
3F	Kilograms Per Liter of Product
	[46-01] Kilograms Per Liter of Product
3G	Pounds Per Piece of Product
	[46-01] Pounds Per Piece of Product
3H	Kilograms Per Kilogram of Product
	[46-01] Kilograms Per Kilogram of Product
3I	Kilograms Per Piece of Product
	[46-01] Kilograms Per Piece of Product
40	Milliliter per Second
	Represents rate of absorbency
	[46-01] Milliliter per Second
41	Milliliter per Minute
	Represents rate of absorbency
	[46-01] Milliliter per Minute
43	Super Bulk Bag
	A cloth, plastic, or paper-based bag having the dimensions of the pallet on which it is constructed and varying in height according to the weight and density of product contained; typically transports dry, loose materials in bulk form
	[46-01] Super Bulk Bag
44	500 Kilogram Bulk Bag
	A flexible container for bulk goods whose contents weigh 500 kilograms when full
	[46-01] 500 Kilogram Bulk Bag
45	300 Kilogram Bulk Bag
	A flexible container for bulk goods whose contents weigh 300 kilograms when full
	[46-01] 300 Kilogram Bulk Bag
46	25 Kilogram Bulk Bag
	A flexible container for bulk goods whose contents weigh 25 kilograms when full
	[46-01] 25 Kilogram Bulk Bag
47	50 Pound Bag
	A flexible container whose contents weigh 50 pounds when full
	[46-01] 50 Pound Bag
48	Bulk Car Load
	A fully loaded rail car containing dry bulk loose materials
	[46-01] Bulk Car Load
4A	Bobbin

	A cylinder or spindle on which yarn or thread is wound
	[46-01] Bobbin
4B	Cap
	Designates that the cap of a container is manufactured to dimensions that enable it to be used as a measuring device when mixing the contents of the container with another substance
	[46-01] Cap
4C	Centistokes
	1×10^{-6} square meters/second
	[46-01] Centistokes
4D	Curie
	A unit of radioactivity equal to 3.7×10^{10} disintegrations per second
	[46-01] Curie
4E	20-Pack
	Pack containing 20 units
	[46-01] 20-Pack
4F	100-Pack
	Pack containing 100 units
	[46-01] 100-Pack
4G	Microliter
	1/1,000,000 liter
	[46-01] Microliter
4H	Micrometer
	1/1,000,000 meter
	[46-01] Micrometer
4I	Meters Per Second
	Measure of linear speed
	[46-01] Meters Per Second
4J	Meters Per Second Per Second
	Measure of acceleration
	[46-01] Meters Per Second Per Second
4K	Milliamperes
	Unit of electrical current
	[46-01] Milliamperes
4L	Megabyte
	Unit of computer storage capacity
	[46-01] Megabyte
4M	Milligrams Per Hour
	Unit of flow
	[46-01] Milligrams Per Hour
4N	Megabecquerel
	Unit of radiation
	[46-01] Megabecquerel
4O	Microfarad
	Unit of electrical capacitance
	[46-01] Microfarad
4P	Newtons Per Meter
	Unit of measure for surface tension
	[46-01] Newtons Per Meter
4Q	Ounce Inch

	Unit of torque
	[46-01] Ounce Inch
4R	Ounce Foot
	Unit of torque
	[46-01] Ounce Foot
4S	Pascal
	Unit of pressure
	[46-01] Pascal
4T	Picofarad
	Unit of electrical capacitance
	[46-01] Picofarad
4U	Pounds Per Hour
	Rate of flow
	[46-01] Pounds Per Hour
4V	Cubic Meter Per Hour
	Rate of flow
	[46-01] Cubic Meter Per Hour
4W	Ton Per Hour
	Rate of flow
	[46-01] Ton Per Hour
4X	Kiloliter Per Hour
	Rate of flow
	[46-01] Kiloliter Per Hour
50	Actual Kilograms
	[46-01] Actual Kilograms
51	Actual Tonnes
	[46-01] Actual Tonnes
52	Credits
	[46-01] Credits
53	Theoretical Kilograms
	[46-01] Theoretical Kilograms
54	Theoretical Tonnes
	[46-01] Theoretical Tonnes
56	Sitas
	[46-01] Sitas
57	Mesh
	Linear measurement of the open area of screen, net, weave, or similarly constructed item
	[46-01] Mesh
58	Net Kilograms
	[46-01] Net Kilograms
59	Parts Per Million
	[46-01] Parts Per Million
5A	Barrels per Minute
	The number of 42 gallon barrels pumped or mixed in a time period of one minute
	[46-01] Barrels per Minute
5B	Batch
	The quantity of material produced at one operation
	[46-01] Batch
5C	Gallons per Thousand
	The number of gallons of a component material used per

	one thousand gallons of a process made
	[46-01] Gallons per Thousand
5E	MMSCF/Day
	One million standard cubic feet of gas per day
	[46-01] MMSCF/Day
5F	Pounds per Thousand
	The number of pounds of solid material used in each 1000 gallons of fluid, mixed or pumped
	[46-01] Pounds per Thousand
5G	Pump
	The number of pumps used on a specific job
	[46-01] Pump
5H	Stage
	A period or step in a process or development
	[46-01] Stage
5I	Standard Cubic Foot
	One cubic foot of gas measured at a fixed temperature and pressure; the value used for the temperature and pressure varies depending on the type of gas being measured
	[46-01] Standard Cubic Foot
5J	Hydraulic Horse Power
	A calculated measure of Horse Power using the formula rate (barrels per minute) times pressure (pounds per square inch) divided by 40.8
	[46-01] Hydraulic Horse Power
5K	Count per Minute
	[46-01] Count per Minute
5P	Seismic Level
	[46-01] Seismic Level
5Q	Seismic Line
	[46-01] Seismic Line
60	Percent Weight
	[46-01] Percent Weight
61	Parts Per Billion
	[46-01] Parts Per Billion
62	Percent Per 1000 Hours
	[46-01] Percent Per 1000 Hours
63	Failure Rate In Time
	[46-01] Failure Rate In Time
64	Pounds Per Square Inch Gauge
	[46-01] Pounds Per Square Inch Gauge
65	Coulomb
	Unit of charge
	[46-01] Coulomb
66	Oersteds
	[46-01] Oersteds
67	Siemens
	Unit of admittance
	[46-01] Siemens
68	Ampere
	[46-01] Ampere
69	Test Specific Scale

	[46-01] Test Specific Scale
70	Volt
	[46-01] Volt
71	Volt-Ampere Per Pound
	[46-01] Volt-Ampere Per Pound
72	Watts Per Pound
	[46-01] Watts Per Pound
73	Ampere Turn Per Centimeter
	[46-01] Ampere Turn Per Centimeter
74	Milli Pascals
	[46-01] Milli Pascals
76	Gauss
	[46-01] Gauss
77	Mil
	[46-01] Mil
78	Kilogauss
	[46-01] Kilogauss
79	Electron Volt
	[46-01] Electron Volt
80	Pounds Per Square Inch Absolute
	[46-01] Pounds Per Square Inch Absolute
81	Henry
	Unit of inductance
	[46-01] Henry
82	Ohm
	Unit of resistance
	[46-01] Ohm
83	Farad
	Unit of capacitance
	[46-01] Farad
84	Kilo Pounds Per Square Inch (KSI)
	[46-01] Kilo Pounds Per Square Inch (KSI)
85	Foot Pounds
	[46-01] Foot Pounds
86	Joules
	[46-01] Joules
87	Pounds per Cubic Foot
	[46-01] Pounds per Cubic Foot
89	Poise
	[46-01] Poise
8C	Cord
	[46-01] Cord
8D	Duty
	[46-01] Duty
8P	Project
	[46-01] Project
8R	Program
	[46-01] Program
8S	Session
	[46-01] Session
8U	Square Kilometer

	[46-01] Square Kilometer
90	Saybold Universal Second A measure of kinematic viscosity, usually of oil
	[46-01] Saybold Universal Second
91	Stokes
	[46-01] Stokes
92	Calories per Cubic Centimeter
	[46-01] Calories per Cubic Centimeter
93	Calories per Gram
	[46-01] Calories per Gram
94	Curl Units
	[46-01] Curl Units
95	20,000 Gallon Tankcar A 20,000 gallon liquid capacity enclosed rail car
	[46-01] 20,000 Gallon Tankcar
96	10,000 Gallon Tankcar A 10,000 gallon liquid capacity enclosed rail car
	[46-01] 10,000 Gallon Tankcar
97	10 Kilogram Drum A cylindrical container whose contents weigh 10 kilograms when full
	[46-01] 10 Kilogram Drum
98	15 Kilogram Drum A cylindrical container whose contents weigh 15 kilograms when full
	[46-01] 15 Kilogram Drum
99	Watt
	[46-01] Watt
A8	Dollars per Hours A rate expressed in dollars per hour to be charged for each hour worked
	[46-01] Dollars per Hours
AA	Ball
	[46-01] Ball
AB	Bulk Pack
	[46-01] Bulk Pack
AC	Acre
	[46-01] Acre
AD	Bytes A computer string of data that consists of a quantity of bits, treated as a unit; a bit is a binary digit
	[46-01] Bytes
AE	Amperes per Meter
	[46-01] Amperes per Meter
AF	Centigram A unit of metric weight equal to 0.01 gram or 0.000035 ounce
	[46-01] Centigram
AG	Angstrom
	[46-01] Angstrom
AH	Additional Minutes The minutes, usually associated with usage-sensitive pricing of telecommunication services, which are above

	the minutes allowed for that particular service
	[46-01] Additional Minutes
AI	Average Minutes Per Call
	The total number of minutes of a category of calls divided by the total number of calls within the category for telephone services calculated to provide call summary details
	[46-01] Average Minutes Per Call
AJ	Cop
	A cylindrical or conical mass of thread, yarn, or cable on a quill or a tube
	[46-01] Cop
AK	Fathom
	A unit of length equal to 6.0 feet or 1.829 meters
	[46-01] Fathom
AL	Access Lines
	Number of lines subject to Carrier Access Line Charges
	[46-01] Access Lines
AM	Ampoule
	[46-01] Ampoule
AN	Minutes or Messages
	Number of minutes or messages contracted or used in telephone services where either the number of minutes or messages are the unit of measure for the calculation of charges
	[46-01] Minutes or Messages
AO	Ampere-turn
	[46-01] Ampere-turn
AP	Aluminum Pounds Only
	[46-01] Aluminum Pounds Only
AQ	Anti-hemophilic Factor (AHF) Units
	Intravenous administering of blood products that have been tested for potency against the U.S. medical unit of measure
	[46-01] Anti-hemophilic Factor (AHF) Units
AR	Suppository
	[46-01] Suppository
AS	Assortment
	[46-01] Assortment
AT	Atmosphere
	Equal to the pressure of the air at sea level, or approximately 14.7 pounds per square inch
	[46-01] Atmosphere
AU	Ocular Insert System
	A drug delivery system which is placed in the lower conjunctival fornix from which the drug diffuses through a membrane at a constant rate over a seven-day period
	[46-01] Ocular Insert System
AV	Capsule
	A compact metallic or plastic container for liquids or solids
	[46-01] Capsule
AW	Powder-Filled Vials
	Standard unit of intravenous blood product that has to be reconstituted with a liquid before being administered

	[46-01] Powder-Filled Vials
AX	Twenty 20 each of an item of supply
	[46-01] Twenty
AY	Assembly
	[46-01] Assembly
AZ	British Thermal Units (BTUs) per Pound
	[46-01] British Thermal Units (BTUs) per Pound
B0	British Thermal Units (BTUs) per Cubic Foot
	[46-01] British Thermal Units (BTUs) per Cubic Foot
B1	Barrels per Day
	[46-01] Barrels per Day
B2	Bunks
	[46-01] Bunks
B3	Batting Pound
	[46-01] Batting Pound
B4	Barrel, Imperial
	[46-01] Barrel, Imperial
B5	Billet
	[46-01] Billet
B6	Bun
	[46-01] Bun
B7	Cycles
	[46-01] Cycles
B8	Board
	[46-01] Board
B9	Batt
	[46-01] Batt
BA	Bale
	[46-01] Bale
BB	Base Box
	[46-01] Base Box
BC	Bucket
	[46-01] Bucket
BD	Bundle
	[46-01] Bundle
BE	Beam
	[46-01] Beam
BF	Board Feet
	[46-01] Board Feet
BG	Bag
	[46-01] Bag
BH	Brush
	[46-01] Brush
BI	Bar
	A centimeter-gram-second unit of pressure, equal to one million dynes per square centimeter
	[46-01] Bar
BJ	Band
	[46-01] Band
BK	Book

	[46-01] Book
BL	Block
	[46-01] Block
BM	Bolt
	[46-01] Bolt
BN	Bulk
	[46-01] Bulk
BO	Bottle
	[46-01] Bottle
BP	100 Board Feet
	[46-01] 100 Board Feet
BQ	Brake horse power
	The horsepower made available by an engine or turbine for driving machinery other than itself
	[46-01] Brake horse power
BR	Barrel
	[46-01] Barrel
BS	Basket
	[46-01] Basket
BT	Belt
	[46-01] Belt
BU	Bushel
	32 dry quarts
	[46-01] Bushel
BV	Bushel, Dry Imperial
	[46-01] Bushel, Dry Imperial
BW	Base Weight
	[46-01] Base Weight
BX	Box
	[46-01] Box
BY	British Thermal Unit (BTU)
	[46-01] British Thermal Unit (BTU)
BZ	Million BTU's
	[46-01] Million BTU's
C0	Calls
	Number of calls handled
	[46-01] Calls
C1	Composite Product Pounds (Total Weight)
	[46-01] Composite Product Pounds (Total Weight)
C2	Carset
	[46-01] Carset
C3	Centiliter
	[46-01] Centiliter
C4	Carload
	[46-01] Carload
C5	Cost
	[46-01] Cost
C6	Cell
	[46-01] Cell
C7	Centipoise (CPS)
	[46-01] Centipoise (CPS)

C8	Cubic Decimeter [46-01] Cubic Decimeter
C9	Coil Group [46-01] Coil Group
CA	Case [46-01] Case
CB	Carboy [46-01] Carboy
CC	Cubic Centimeter [46-01] Cubic Centimeter
CD	Carat [46-01] Carat
CE	Centigrade, Celsius [46-01] Centigrade, Celsius
CF	Cubic Feet [46-01] Cubic Feet
CG	Card [46-01] Card
CH	Container [46-01] Container
CI	Cubic Inches [46-01] Cubic Inches
CJ	Cone [46-01] Cone
CK	Connector [46-01] Connector
CL	Cylinder [46-01] Cylinder
CM	Centimeter [46-01] Centimeter
CN	Can [46-01] Can
CO	Cubic Meters (Net) [46-01] Cubic Meters (Net)
CP	Crate [46-01] Crate
CQ	Cartridge [46-01] Cartridge
CR	Cubic Meter [46-01] Cubic Meter
CS	Cassette [46-01] Cassette
CT	Carton [46-01] Carton
CU	Cup [46-01] Cup
CV	Cover [46-01] Cover
CW	Hundred Pounds (CWT) [46-01] Hundred Pounds (CWT)
CX	Coil

	[46-01] Coil
CY	Cubic Yard
	[46-01] Cubic Yard
CZ	Combo
	[46-01] Combo
D2	Shares
	[46-01] Shares
D3	Square Decimeter
	Metric unit of area
	[46-01] Square Decimeter
D5	Kilogram Per Square Centimeter
	Unit of pressure
	[46-01] Kilogram Per Square Centimeter
D8	Draize Score
	[46-01] Draize Score
D9	Dyne per Square Centimeter
	[46-01] Dyne per Square Centimeter
DA	Days
	[46-01] Days
DB	Dry Pounds
	[46-01] Dry Pounds
DC	Disk (Disc)
	[46-01] Disk (Disc)
DD	Degree
	[46-01] Degree
DE	Deal
	[46-01] Deal
DF	Dram
	[46-01] Dram
DG	Decigram
	[46-01] Decigram
DH	Miles
	[46-01] Miles
DI	Dispenser
	[46-01] Dispenser
DJ	Decagram
	[46-01] Decagram
DK	Kilometers
	[46-01] Kilometers
DL	Deciliter
	[46-01] Deciliter
DM	Decimeter
	[46-01] Decimeter
DN	Deci Newton-Meter
	One tenth of a Newton-meter, representing torque. A Newton-meter represents force times distance
	[46-01] Deci Newton-Meter
DO	Dollars, U.S.
	[46-01] Dollars, U.S.
DP	Dozen Pair
	[46-01] Dozen Pair

DQ	Data Records Number of Data Records handled [46-01] Data Records
DR	Drum [46-01] Drum
DS	Display [46-01] Display
DT	Dry Ton [46-01] Dry Ton
DU	Dyne The unit of force in the cgs system equal to the force that would give a free mass of one gram an acceleration of one centimeter per second [46-01] Dyne
DW	Calendar Days [46-01] Calendar Days
DX	Dynes per Centimeter Unit of surface tension [46-01] Dynes per Centimeter
DY	Directory Books Number of directory books delivered to customer [46-01] Directory Books
DZ	Dozen [46-01] Dozen
E1	Hectometer A unit of metric length equal to 109.36 yards or 0.062 mile [46-01] Hectometer
E3	Inches, Fraction--Average [46-01] Inches, Fraction--Average
E4	Inches, Fraction--Minimum [46-01] Inches, Fraction--Minimum
E5	Inches, Fraction--Actual [46-01] Inches, Fraction--Actual
E7	Inches, Decimal--Average [46-01] Inches, Decimal--Average
E8	Inches, Decimal--Actual [46-01] Inches, Decimal--Actual
E9	English, (Feet, Inches) [46-01] English, (Feet, Inches)
EA	Each [46-01] Each
EB	Electronic Mail Boxes Number of Electronic Mail Boxes established for an account [46-01] Electronic Mail Boxes
EC	Each per Month [46-01] Each per Month
ED	Inches, Decimal--Nominal [46-01] Inches, Decimal--Nominal
EE	Employees [46-01] Employees

EF	Inches, Fraction-Nominal [46-01] Inches, Fraction-Nominal
EG	Double-time Hours [46-01] Double-time Hours
EH	Knots [46-01] Knots
EJ	Locations [46-01] Locations
EM	Inches, Decimal-Minimum [46-01] Inches, Decimal-Minimum
EP	Eleven pack [46-01] Eleven pack
EQ	Equivalent Gallons Represents number of gallons that syrup and concentrate make of product [46-01] Equivalent Gallons
EV	Envelope [46-01] Envelope
EX	Feet, Inches and Fraction [46-01] Feet, Inches and Fraction
EY	Feet, Inches and Decimal [46-01] Feet, Inches and Decimal
EZ	Feet and Decimal [46-01] Feet and Decimal
F1	Thousand Cubic Feet Per Day The unit of measure of the rate of production of a gas [46-01] Thousand Cubic Feet Per Day
F2	International Unit A unit accepted by an international agency; potency of a drug/vitamin based on a specific weight of that drug/vitamin [46-01] International Unit
F3	Equivalent Weight of a substance which combines with or replaces one gram atomic weight of hydrogen [46-01] Equivalent
F4	Minim An apothecary's fluid measure; 60 minims = 1 fluid gram (approx. 5 cc) [46-01] Minim
F5	MOL Gram-molecular weight of a gas [46-01] MOL
F6	Price Per Share [46-01] Price Per Share
F9	Fibers per Cubic Centimeter of Air [46-01] Fibers per Cubic Centimeter of Air
FA	Fahrenheit [46-01] Fahrenheit
FB	Fields [46-01] Fields
FC	1000 Cubic Feet

	[46-01] 1000 Cubic Feet
FD	Million Particles per Cubic Foot
	[46-01] Million Particles per Cubic Foot
FE	Track Foot
	Represents rails, all ties and fittings, and subgrade
	[46-01] Track Foot
FF	Hundred Cubic Meters
	A unit of metric volume equal to 131.0 cubic yards
	[46-01] Hundred Cubic Meters
FG	Transdermal Patch
	A drug delivery system which is placed on the skin and releases a drug at a constant rate through the skin
	[46-01] Transdermal Patch
FH	Micromolar
	One millionth of a mole; a mole is a standard chemical unit
	[46-01] Micromolar
FJ	Sizing Factor
	[46-01] Sizing Factor
FK	Fibers
	[46-01] Fibers
FL	Flake Ton
	[46-01] Flake Ton
FM	Million Cubic Feet
	[46-01] Million Cubic Feet
FO	Fluid Ounce
	[46-01] Fluid Ounce
FP	Pounds per Sq. Ft.
	[46-01] Pounds per Sq. Ft.
FR	Feet Per Minute
	Measure of linear speed
	[46-01] Feet Per Minute
FS	Feet Per Second
	Measure of linear speed
	[46-01] Feet Per Second
FT	Foot
	[46-01] Foot
FZ	Fluid Ounce (Imperial)
	A liquid unit of measure equal to 1/20 (.05) pint (Imperial), 28.416 cubic centimeters, or 28.416 milliliters
	[46-01] Fluid Ounce (Imperial)
G2	U.S. Gallons Per Minute
	Rate of flow
	[46-01] U.S. Gallons Per Minute
G3	Imperial Gallons Per Minute
	Rate of flow
	[46-01] Imperial Gallons Per Minute
G4	Gigabecquerel
	Unit of radiation equal to 27 millicuries
	[46-01] Gigabecquerel
G5	Gill (Imperial)
	A unit of liquid or dry measure equal to 5 fluid ounces,

	8.669 cubic inches, or 142.066 cubic centimeters [46-01] Gill (Imperial)
G7	Microfiche Sheet A film that contains photographed documents greatly reduced in size [46-01] Microfiche Sheet
GA	Gallon [46-01] Gallon
GB	Gallons/Day [46-01] Gallons/Day
GC	Grams per 100 Grams [46-01] Grams per 100 Grams
GD	Gross Barrels [46-01] Gross Barrels
GE	Pounds per Gallon [46-01] Pounds per Gallon
GF	Grams per 100 Centimeters [46-01] Grams per 100 Centimeters
GG	Great Gross (Dozen Gross) [46-01] Great Gross (Dozen Gross)
GH	Half Gallon [46-01] Half Gallon
GI	Imperial Gallons [46-01] Imperial Gallons
GJ	Grams per Milliliter [46-01] Grams per Milliliter
GK	Grams per Kilogram [46-01] Grams per Kilogram
GL	Grams per Liter [46-01] Grams per Liter
GM	Grams per Sq. Meter [46-01] Grams per Sq. Meter
GN	Gross Gallons [46-01] Gross Gallons
GO	Milligrams per Square Meter [46-01] Milligrams per Square Meter
GP	Milligrams per Cubic Meter [46-01] Milligrams per Cubic Meter
GQ	Micrograms per Cubic Meter [46-01] Micrograms per Cubic Meter
GR	Gram [46-01] Gram
GS	Gross [46-01] Gross
GT	Gross Kilogram Represents kilograms of product and package or container [46-01] Gross Kilogram
GU	Gauss per Oersteds [46-01] Gauss per Oersteds
GV	Gigajoules One billion joules; standard method of expressing absolute heating value of natural gas regardless of volume

	in the Canadian oil and gas industries
	[46-01] Gigajoules
GW	Gallons Per Thousand Cubic Feet
	[46-01] Gallons Per Thousand Cubic Feet
GX	Grain
	A small unit of weight equal to 1/480 (.002083) troy ounce, or 0.0648 gram
	[46-01] Grain
GY	Gross Yard
	[46-01] Gross Yard
GZ	Gage Systems
	[46-01] Gage Systems
H1	Half Pages - Electronic
	Number of electronic half pages of data delivered
	[46-01] Half Pages - Electronic
H2	Half Liter
	Unit of capacity equal to 1/2 liter
	[46-01] Half Liter
H4	Hectoliter
	Metric measure for 100 liters
	[46-01] Hectoliter
HA	Hank
	One hundred feet of rope
	[46-01] Hank
HB	Hundred Boxes
	[46-01] Hundred Boxes
HC	Hundred Count
	[46-01] Hundred Count
HD	Half Dozen
	[46-01] Half Dozen
HE	Hundredth of a Carat
	[46-01] Hundredth of a Carat
HF	Hundred Feet
	[46-01] Hundred Feet
HG	Hectogram
	[46-01] Hectogram
HH	Hundred Cubic Feet
	[46-01] Hundred Cubic Feet
HI	Hundred Sheets
	[46-01] Hundred Sheets
HJ	Horsepower
	[46-01] Horsepower
HK	Hundred Kilograms
	[46-01] Hundred Kilograms
HL	Hundred Feet - Linear
	[46-01] Hundred Feet - Linear
HM	Miles Per Hour
	[46-01] Miles Per Hour
HN	Millimeters of Mercury
	[46-01] Millimeters of Mercury
HO	Hundred Troy Ounces

	[46-01] Hundred Troy Ounces
HP	Millimeter H2O Unit of pressure
	[46-01] Millimeter H2O
HQ	Hectare
	[46-01] Hectare
HR	Hours
	[46-01] Hours
HS	Hundred Square Feet
	[46-01] Hundred Square Feet
HT	Half Hour
	[46-01] Half Hour
HU	Hundred
	[46-01] Hundred
HV	Hundred Weight (Short)
	[46-01] Hundred Weight (Short)
HW	Hundred Weight (Long)
	[46-01] Hundred Weight (Long)
HY	Hundred Yards
	[46-01] Hundred Yards
HZ	Hertz
	[46-01] Hertz
IA	Inch Pound Unit of torque
	[46-01] Inch Pound
IB	Inches Per Second (Vibration Velocity) Measure of vibration velocity
	[46-01] Inches Per Second (Vibration Velocity)
IC	Counts per Inch
	[46-01] Counts per Inch
IE	Person
	[46-01] Person
IF	Inches of Water The maximum differential pressure for which a given meter will measure accurately and is expressed in inches of water
	[46-01] Inches of Water
IH	Inhaler Metered-dose pressurized method of getting medication into the lungs or nasal passages
	[46-01] Inhaler
II	Column-Inches A unit of area one column wide and one inch high
	[46-01] Column-Inches
IK	Peaks per Inch (PPI)
	[46-01] Peaks per Inch (PPI)
IL	Inches per Minute
	[46-01] Inches per Minute
IM	Impressions
	[46-01] Impressions
IN	Inch
	[46-01] Inch

IP	Insurance Policy An individual insurance contract [46-01] Insurance Policy
IT	Counts per Centimeter [46-01] Counts per Centimeter
IU	Inches Per Second (Linear Speed) Measure of linear speed [46-01] Inches Per Second (Linear Speed)
IV	Inches Per Second Per Second (Acceleration) Measure of acceleration [46-01] Inches Per Second Per Second (Acceleration)
IW	Inches Per Second Per Second (Vibration Acceleration) Measure of vibration acceleration [46-01] Inches Per Second Per Second (Vibration Acceleration)
J2	Joule Per Kilogram Measure of specific energy [46-01] Joule Per Kilogram
JA	Job [46-01] Job
JB	Jumbo [46-01] Jumbo
JE	Joule Per Kelvin Measure of heat capacity [46-01] Joule Per Kelvin
JG	Joule per Gram Joule is unit of energy and gram is unit of mass [46-01] Joule per Gram
JK	Mega Joule per Kilogram "Mega" means "millions" and "kilo" means "thousands" [46-01] Mega Joule per Kilogram
JM	Megajoule/Cubic Meter A megajoule is one million joules; conventional measurements for expressing the heating value available in a given volume of gas [46-01] Megajoule/Cubic Meter
JO	Joint [46-01] Joint
JR	Jar [46-01] Jar
JU	Jug [46-01] Jug
K1	Kilowatt Demand Represents potential power load measured at predetermined intervals [46-01] Kilowatt Demand
K2	Kilovolt Amperes Reactive Demand Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter [46-01] Kilovolt Amperes Reactive Demand
K3	Kilovolt Amperes Reactive Hour Represents actual electricity equivalent to kilowatt hours;

	billable when usage meets or exceeds defined parameters [46-01] Kilovolt Amperes Reactive Hour
K4	Kilovolt Amperes Measure of electrical power [46-01] Kilovolt Amperes
K5	Kilovolt Amperes Reactive Measure of electrical power [46-01] Kilovolt Amperes Reactive
K6	Kiloliter One thousand liters [46-01] Kiloliter
K7	Kilowatt Measure of electrical power [46-01] Kilowatt
K9	Kilograms per Millimeter Squared (KG/MM2) [46-01] Kilograms per Millimeter Squared (KG/MM2)
KA	Cake [46-01] Cake
KB	Kilocharacters Kilocharacters of data transmitted [46-01] Kilocharacters
KC	Kilograms per Cubic Meter [46-01] Kilograms per Cubic Meter
KD	Kilograms Decimal [46-01] Kilograms Decimal
KE	Keg A unit of weight equal to 100 pounds, used for nails [46-01] Keg
KF	Kilopackets Kilopackets of data transmitted [46-01] Kilopackets
KG	Kilogram [46-01] Kilogram
KH	Kilowatt Hour [46-01] Kilowatt Hour
KI	Kilograms/Millimeter Width [46-01] Kilograms/Millimeter Width
KJ	Kilosegments Kilosegments of data transmitted [46-01] Kilosegments
KK	100 Kilograms [46-01] 100 Kilograms
KL	Kilograms/Meter [46-01] Kilograms/Meter
KM	Kilograms per Square Meter, Kilograms, Decimal [46-01] Kilograms per Square Meter, Kilograms, Decimal
KO	Millequivalence Caustic Potash per Gram of Product Acid number and saponification number test results have a unit of measure of Millequivalence KOH per Gram [46-01] Millequivalence Caustic Potash per Gram of Product

KP	Kilometers Per Hour [46-01] Kilometers Per Hour
KQ	Kilopascal Represents pressure [46-01] Kilopascal
KR	Kiloroentgen Measure of radiation [46-01] Kiloroentgen
KS	1000 Pounds per Square Inch [46-01] 1000 Pounds per Square Inch
KT	Kit [46-01] Kit
KU	Task [46-01] Task
KV	Kelvin [46-01] Kelvin
KW	Kilograms per Millimeter [46-01] Kilograms per Millimeter
KX	Milliliters per Kilogram [46-01] Milliliters per Kilogram
L2	Liters Per Minute Measure of the rate of flow [46-01] Liters Per Minute
LA	Pounds Per Cubic Inch [46-01] Pounds Per Cubic Inch
LB	Pound [46-01] Pound
LC	Linear Centimeter [46-01] Linear Centimeter
LE	Lite [46-01] Lite
LF	Linear Foot [46-01] Linear Foot
LG	Long Ton 2240 pounds as used in the U.K. [46-01] Long Ton
LH	Labor Hours [46-01] Labor Hours
LI	Linear Inch [46-01] Linear Inch
LJ	Large Spray [46-01] Large Spray
LK	Link [46-01] Link
LL	Lifetime A duration ending with the death of the individual [46-01] Lifetime
LM	Linear Meter [46-01] Linear Meter
LN	Length [46-01] Length

LO	Lot [46-01] Lot
LP	Liquid Pounds [46-01] Liquid Pounds
LQ	Liters Per Day Measure of liquid flow over a given time period [46-01] Liters Per Day
LR	Layer(s) [46-01] Layer(s)
LS	Lump Sum [46-01] Lump Sum
LT	Liter [46-01] Liter
LX	Linear Yards Per Pound [46-01] Linear Yards Per Pound
LY	Linear Yard [46-01] Linear Yard
M0	Magnetic Tapes Number of Magnetic Tapes delivered with data [46-01] Magnetic Tapes
M1	Milligrams per Liter [46-01] Milligrams per Liter
M2	Millimeter-Actual [46-01] Millimeter-Actual
M3	Mat [46-01] Mat
M4	Monetary Value [46-01] Monetary Value
M5	Microcurie [46-01] Microcurie
M6	Millibar [46-01] Millibar
M7	Micro Inch [46-01] Micro Inch
M8	Mega Pascals [46-01] Mega Pascals
M9	Million British Thermal Units per One Thousand Cubic Feet Represents conversion from a volume of gas to the heat value of the gas [46-01] Million British Thermal Units per One Thousand Cubic Feet
MA	Machine/Unit [46-01] Machine/Unit
MB	Millimeter-Nominal [46-01] Millimeter-Nominal
MC	Microgram [46-01] Microgram
MD	Air Dry Metric Ton [46-01] Air Dry Metric Ton
ME	Milligram [46-01] Milligram

MF	Milligram per Sq. Ft. per Side [46-01] Milligram per Sq. Ft. per Side
MG	Metric Gross Ton [46-01] Metric Gross Ton
MH	Microns (Micrometers) 1/1,000,000 meter [46-01] Microns (Micrometers)
MI	Metric [46-01] Metric
MJ	Minutes [46-01] Minutes
MK	Milligrams Per Square Inch [46-01] Milligrams Per Square Inch
ML	Milliliter [46-01] Milliliter
MM	Millimeter [46-01] Millimeter
MN	Metric Net Ton [46-01] Metric Net Ton
MO	Months [46-01] Months
MP	Metric Ton [46-01] Metric Ton
MQ	1000 Meters [46-01] 1000 Meters
MR	Meter [46-01] Meter
MS	Square Millimeter [46-01] Square Millimeter
MT	Metric Long Ton [46-01] Metric Long Ton
MU	Millicurie [46-01] Millicurie
MV	Number of Mults [46-01] Number of Mults
MW	Metric Ton Kilograms [46-01] Metric Ton Kilograms
MX	Mixed [46-01] Mixed
MY	Millimeter-Average [46-01] Millimeter-Average
MZ	Millimeter-minimum [46-01] Millimeter-minimum
N1	Pen Calories Daily calories prescribed to be taken for parenteral/enteral therapy [46-01] Pen Calories
N2	Number of Lines [46-01] Number of Lines
N3	Print Point A print point is approximately .0138"

	[46-01] Print Point
N4	Pen Grams (Protein) Grams of amino acids prescribed to be taken for parenteral/enteral therapy
	[46-01] Pen Grams (Protein)
N6	Megahertz One million cycles per second
	[46-01] Megahertz
N7	Parts
	[46-01] Parts
N9	Cartridge Needle Used with auto-injector units only, a disposable, filled cartridge that includes a needle
	[46-01] Cartridge Needle
NA	Milligrams per Kilogram
	[46-01] Milligrams per Kilogram
NB	Barge
	[46-01] Barge
NC	Car
	[46-01] Car
ND	Net Barrels
	[46-01] Net Barrels
NE	Net Liters
	[46-01] Net Liters
NF	Messages Number of Messages transmitted, or delivered
	[46-01] Messages
NG	Net Gallons
	[46-01] Net Gallons
NH	Message Hours Number of hours used, calculated at some rate basis such as Minutes/message carried
	[46-01] Message Hours
NI	Net Imperial Gallons
	[46-01] Net Imperial Gallons
NJ	Number of Screens Number of data screens handled, or transmitted
	[46-01] Number of Screens
NL	Load
	[46-01] Load
NM	Nautical Mile
	[46-01] Nautical Mile
NN	Train
	[46-01] Train
NQ	Mho The basic unit of electrical conductivity, having a unity value when one ampere of current flows through a conductor to which a one volt difference in electrical potential is applied
	[46-01] Mho
NR	Micro Mho The typical unit of electrical conductivity measurement - one millionth of an Mho

	[46-01] Micro Mho
NS	Short Ton Two thousand pounds
	[46-01] Short Ton
NT	Trailer
	[46-01] Trailer
NU	Newton-Meter Unit of energy or torque
	[46-01] Newton-Meter
NV	Vehicle
	[46-01] Vehicle
NW	Newton Represents force in the International Metric System (SI); equal to the force that produces an acceleration of 1 meter per second on a mass of 1 kilogram
	[46-01] Newton
NX	Parts Per Thousand
	[46-01] Parts Per Thousand
NY	Pounds Per Air-Dry Metric Ton A measure of chemical addition rate during manufacture and product constituent analysis
	[46-01] Pounds Per Air-Dry Metric Ton
OA	Panel
	[46-01] Panel
OC	Billboard
	[46-01] Billboard
ON	Ounces per Square Yard
	[46-01] Ounces per Square Yard
OP	Two pack
	[46-01] Two pack
OT	Overtime Hours
	[46-01] Overtime Hours
OZ	Ounce - Av
	[46-01] Ounce - Av
P0	Pages - Electronic Number of electronic pages of data delivered
	[46-01] Pages - Electronic
P1	Percent
	[46-01] Percent
P2	Pounds per Foot
	[46-01] Pounds per Foot
P3	Three pack
	[46-01] Three pack
P4	Four-pack
	[46-01] Four-pack
P5	Five-pack
	[46-01] Five-pack
P6	Six pack
	[46-01] Six pack
P7	Seven pack
	[46-01] Seven pack
P8	Eight-pack

	[46-01] Eight-pack
P9	Nine pack
	[46-01] Nine pack
PA	Pail
	[46-01] Pail
PB	Pair Inches
	[46-01] Pair Inches
PC	Piece
	[46-01] Piece
PD	Pad
	[46-01] Pad
PE	Pounds Equivalent
	[46-01] Pounds Equivalent
PF	Pallet (Lift)
	[46-01] Pallet (Lift)
PG	Pounds Gross
	[46-01] Pounds Gross
PH	Pack (PAK)
	[46-01] Pack (PAK)
PI	Pitch
	[46-01] Pitch
PJ	Pounds, Decimal - Pounds per Square Foot - Pound Gage
	[46-01] Pounds, Decimal - Pounds per Square Foot - Pound Gage
PK	Package
	[46-01] Package
PL	Pallet/Unit Load
	[46-01] Pallet/Unit Load
PM	Pounds-Percentage
	[46-01] Pounds-Percentage
PN	Pounds Net
	[46-01] Pounds Net
PO	Pounds per Inch of Length
	[46-01] Pounds per Inch of Length
PP	Plate
	[46-01] Plate
PQ	Pages per Inch
	[46-01] Pages per Inch
PR	Pair
	[46-01] Pair
PS	Pounds per Sq. Inch
	[46-01] Pounds per Sq. Inch
PT	Pint
	[46-01] Pint
PU	Mass Pounds
	[46-01] Mass Pounds
PV	Half Pint
	[46-01] Half Pint
PW	Pounds per Inch of Width
	[46-01] Pounds per Inch of Width
PX	Pint, Imperial

	[46-01] Pint, Imperial
PY	Peck, Dry U.S.
	[46-01] Peck, Dry U.S.
PZ	Peck, Dry Imperial
	[46-01] Peck, Dry Imperial
Q1	Quarter (Time)
	[46-01] Quarter (Time)
Q2	Pint U.S. Dry
	Volume equal to 33.6003125 cubic inches
	[46-01] Pint U.S. Dry
Q3	Meal
	A group of food items packaged together for human consumption
	[46-01] Meal
Q4	Fifty
	A unit of issue in which a group of 50 items are consolidated and measured as a single entity
	[46-01] Fifty
Q5	Twenty-Five
	A unit of issue in which a group of 25 items are consolidated and measured as a single entity
	[46-01] Twenty-Five
Q6	Thirty-Six
	A unit of issue in which a group of 36 items are consolidated and measured as a single entity
	[46-01] Thirty-Six
Q7	Twenty-Four
	A unit of issue in which a group of 24 items are consolidated and measured as a single entity
	[46-01] Twenty-Four
QA	Pages - Facsimile
	Number of FAX pages transmitted
	[46-01] Pages - Facsimile
QB	Pages - Hardcopy
	Number of printed pages delivered
	[46-01] Pages - Hardcopy
QC	Channel
	[46-01] Channel
QD	Quarter Dozen
	[46-01] Quarter Dozen
QE	Photographs
	[46-01] Photographs
QH	Quarter Hours
	Number of 15 minute increments of usage handled
	[46-01] Quarter Hours
QK	Quarter Kilogram
	A unit of metric weight equal to 250 grams
	[46-01] Quarter Kilogram
QR	Quire
	[46-01] Quire
QS	Quart, Dry U.S.
	[46-01] Quart, Dry U.S.
QT	Quart

	[46-01] Quart
QU	Quart, Imperial
	[46-01] Quart, Imperial
R1	Pica
	Approximately .166 inches measured from the top of the ascender (the upward stroke in a lowercase letter, such as "t") to the bottom of the descender (the downward stroke in a lowercase letter, such as "p"); twelve points equal one pica; six picas equal approximately one inch (.996)
	[46-01] Pica
R2	Becquerel
	Unit of radiation equal to 3.7×10^{10} of a curie
	[46-01] Becquerel
R3	Revolutions Per Minute
	[46-01] Revolutions Per Minute
R4	Calorie
	The amount of heat it takes to raise the temperature of one gram of water one degree Centigrade at a pressure of one atmosphere
	[46-01] Calorie
R5	Thousands of Dollars
	[46-01] Thousands of Dollars
R6	Millions of Dollars
	[46-01] Millions of Dollars
R7	Billions of Dollars
	[46-01] Billions of Dollars
R8	Roentgen Equivalent in Man (REM)
	[46-01] Roentgen Equivalent in Man (REM)
R9	Thousand Cubic Meters
	[46-01] Thousand Cubic Meters
RA	Rack
	[46-01] Rack
RB	Radian
	[46-01] Radian
RC	Rod (area) - 16.25 Square Yards
	[46-01] Rod (area) - 16.25 Square Yards
RD	Rod (length) - 5.5 Yards
	[46-01] Rod (length) - 5.5 Yards
RE	Reel
	[46-01] Reel
RG	Ring
	[46-01] Ring
RH	Running or Operating Hours
	Measure of accumulated time of machine or piece of equipment has been running
	[46-01] Running or Operating Hours
RK	Roll-Metric Measure
	[46-01] Roll-Metric Measure
RL	Roll
	[46-01] Roll
RM	Ream
	[46-01] Ream
RN	Ream-Metric Measure

	[46-01] Ream-Metric Measure
RO	Round
	[46-01] Round
RP	Pounds per Ream
	[46-01] Pounds per Ream
RS	Resets
	Number of times a transmission is reset due to line drop, interrupt, etc.
	[46-01] Resets
RT	Revenue Ton Miles
	One ton of revenue-generating freight moving one mile
	[46-01] Revenue Ton Miles
RU	Run
	[46-01] Run
S1	Semester
	[46-01] Semester
S2	Trimester
	[46-01] Trimester
S3	Square Feet per Second
	[46-01] Square Feet per Second
S4	Square Meters per Second
	[46-01] Square Meters per Second
S5	Sixty-fourths of an Inch
	[46-01] Sixty-fourths of an Inch
S6	Sessions
	Number of interactive sessions handled
	[46-01] Sessions
S7	Storage Units
	Number of storage increments used
	[46-01] Storage Units
S8	Standard Advertising Units (SAUs)
	A predefined partition of advertising page consisting of column-inch multiples
	[46-01] Standard Advertising Units (SAUs)
S9	Slip Sheet
	A cardboard platform used for holding product for storage or transportation
	[46-01] Slip Sheet
SA	Sandwich
	[46-01] Sandwich
SB	Square Mile
	[46-01] Square Mile
SC	Square Centimeter
	[46-01] Square Centimeter
SD	Solid Pounds
	[46-01] Solid Pounds
SE	Section
	640 acres or one square mile
	[46-01] Section
SF	Square Foot
	[46-01] Square Foot
SG	Segment

	[46-01] Segment
SH	Sheet
	[46-01] Sheet
SI	Square Inch
	[46-01] Square Inch
SJ	Sack
	[46-01] Sack
SK	Split Tanktruck
	[46-01] Split Tanktruck
SL	Sleeve
	[46-01] Sleeve
SM	Square Meter
	[46-01] Square Meter
SN	Square Rod
	[46-01] Square Rod
SO	Spool
	[46-01] Spool
SP	Shelf Package
	[46-01] Shelf Package
SQ	Square
	A unit of measure for roofing materials equal to 100 square feet
	[46-01] Square
SR	Strip
	[46-01] Strip
SS	Sheet-Metric Measure
	[46-01] Sheet-Metric Measure
ST	Set
	[46-01] Set
SV	Skid
	[46-01] Skid
SW	Skein
	[46-01] Skein
SX	Shipment
	[46-01] Shipment
SY	Square Yard
	[46-01] Square Yard
SZ	Syringe
	Glass or plastic barrels used to administer fluid medication under the skin, into a vein artery, or into a muscle
	[46-01] Syringe
T0	Telecommunications Lines in Service
	Snapshot sample of lines in service
	[46-01] Telecommunications Lines in Service
T1	Thousand pounds gross
	[46-01] Thousand pounds gross
T2	Thousandths of an Inch
	[46-01] Thousandths of an Inch
T3	Thousand Pieces
	[46-01] Thousand Pieces
T4	Thousand Bags

	[46-01] Thousand Bags
T5	Thousand Casings
	[46-01] Thousand Casings
T6	Thousand Gallons
	[46-01] Thousand Gallons
T7	Thousand Impressions
	[46-01] Thousand Impressions
T8	Thousand Linear Inches
	[46-01] Thousand Linear Inches
T9	Thousand Kilowatt Hours
	[46-01] Thousand Kilowatt Hours
TA	Tenth Cubic Foot
	[46-01] Tenth Cubic Foot
TB	Tube
	[46-01] Tube
TC	Truckload
	[46-01] Truckload
TD	Therms
	[46-01] Therms
TE	Tote
	[46-01] Tote
TF	Ten Square Yards
	[46-01] Ten Square Yards
TG	Gross Ton
	[46-01] Gross Ton
TH	Thousand
	[46-01] Thousand
TI	Thousand Square Inches
	[46-01] Thousand Square Inches
TJ	Thousand Sq. Centimeters
	[46-01] Thousand Sq. Centimeters
TK	Tank
	[46-01] Tank
TL	Thousand Feet (Linear)
	[46-01] Thousand Feet (Linear)
TM	Thousand Feet (Board)
	[46-01] Thousand Feet (Board)
TN	Net Ton (2,000 LB).
	[46-01] Net Ton (2,000 LB).
TO	Troy Ounce
	[46-01] Troy Ounce
TP	Ten-pack
	[46-01] Ten-pack
TQ	Thousand Feet
	[46-01] Thousand Feet
TR	Ten Square Feet
	[46-01] Ten Square Feet
TS	Thousand Square Feet
	[46-01] Thousand Square Feet
TT	Thousand Linear Meters
	[46-01] Thousand Linear Meters

TU	Thousand Linear Yards [46-01] Thousand Linear Yards
TV	Thousand Kilograms [46-01] Thousand Kilograms
TW	Thousand Sheets [46-01] Thousand Sheets
TX	Troy Pound [46-01] Troy Pound
TY	Tray [46-01] Tray
TZ	Thousand Cubic Feet [46-01] Thousand Cubic Feet
U1	Treatments [46-01] Treatments
U2	Tablet A compressed or molded block of solid material; a collection of sheet paper glued together at one edge [46-01] Tablet
U3	Ten 10 each of an item of supply [46-01] Ten
U5	Two Hundred Fifty 250 each of an item of supply [46-01] Two Hundred Fifty
UA	Torr Pressure [46-01] Torr
UB	Telecommunications Lines in Service - Average Average number of lines in service specific to equal access requirements [46-01] Telecommunications Lines in Service - Average
UC	Telecommunications Ports Number of network access ports [46-01] Telecommunications Ports
UD	Tenth Minutes Number of 6 second increments of usage [46-01] Tenth Minutes
UE	Tenth Hours Number of 6 minute increments of usage [46-01] Tenth Hours
UF	Usage per Telecommunications Line - Average [46-01] Usage per Telecommunications Line - Average
UH	Ten Thousand Yards [46-01] Ten Thousand Yards
UL	Unitless Unit of Measure for properties or test results without units of measure [46-01] Unitless
UM	Million Units Measure used to indicate large quantities in multiples of one million [46-01] Million Units

UN	Unit [46-01] Unit
UP	Troche A flat, round, tablet made of a medicinal substance [46-01] Troche
UQ	Wafer A light, thin, crisp, cake [46-01] Wafer
UR	Application An action of putting something into material contact [46-01] Application
US	Dosage Form [46-01] Dosage Form
UT	Inhalation [46-01] Inhalation
UU	Lozenge [46-01] Lozenge
UV	Percent Topical Only A measure of medication intended only for external use [46-01] Percent Topical Only
UW	Milliequivalent [46-01] Milliequivalent
UX	Dram (Minim) [46-01] Dram (Minim)
UY	Fifty Square Feet [46-01] Fifty Square Feet
UZ	Fifty Count [46-01] Fifty Count
V1	Flat A shallow rectangular container frequently used for fruits and vegetables [46-01] Flat
V2	Pouch [46-01] Pouch
VA	Volt-ampere per Kilogram [46-01] Volt-ampere per Kilogram
VC	Five Hundred 500 each of an item of supply [46-01] Five Hundred
VI	Vial [46-01] Vial
VP	Percent Volume [46-01] Percent Volume
VR	Volt-ampere-reactive [46-01] Volt-ampere-reactive
VS	Visit A quantitative measure of the number of visits to a provider by the patient [46-01] Visit
W2	Wet Kilo Weight of product plus liquid solution [46-01] Wet Kilo

WA	Watts per Kilogram [46-01] Watts per Kilogram
WB	Wet Pound [46-01] Wet Pound
WD	Work Days [46-01] Work Days
WE	Wet Ton [46-01] Wet Ton
WG	Wine Gallon [46-01] Wine Gallon
WH	Wheel [46-01] Wheel
WI	Weight per Square Inch [46-01] Weight per Square Inch
WK	Week [46-01] Week
WM	Working Months [46-01] Working Months
WP	Pennyweight [46-01] Pennyweight
WR	Wrap [46-01] Wrap
WW	Milliliters of Water [46-01] Milliliters of Water
X1	Chains (Land Survey) [46-01] Chains (Land Survey)
X2	Bunch A measure used to identify a group of like items grown or fastened together [46-01] Bunch
X3	Clove A measure used to identify a section of a separate bulb [46-01] Clove
X4	Drop The smallest quantity of liquid heavy enough to form a spherical mass [46-01] Drop
X5	Head A measure used for a rounded, compact mass of leaves, buds or flowers [46-01] Head
X6	Heart A measure used to identify the central or innermost physical part [46-01] Heart
X7	Leaf A measure used to identify a usually green flattened structure of vascular plants processed for a particular purpose [46-01] Leaf
X8	Loaf A shaped mass of food cooked or prepared in one piece [46-01] Loaf

X9	Portion A measure used to identify a section or quantity within a larger thing [46-01] Portion
XP	Base Box per Pound [46-01] Base Box per Pound
Y1	Slice A measure used to identify a thin broad piece cut from a larger object [46-01] Slice
Y2	Tablespoon A measure equal to three teaspoons or a half fluid ounce [46-01] Tablespoon
Y3	Teaspoon A measure equal to five milliliters or one third tablespoon [46-01] Teaspoon
Y4	Tub A measure used to identify a storage container [46-01] Tub
YD	Yard [46-01] Yard
YL	100 Lineal Yards [46-01] 100 Lineal Yards
YR	Years [46-01] Years
YT	Ten Yards [46-01] Ten Yards
Z1	Lift Van [46-01] Lift Van
Z2	Chest [46-01] Chest
Z3	Cask [46-01] Cask
Z4	Hogshead [46-01] Hogshead
Z5	Lug [46-01] Lug
Z6	Conference Points A participant on a conference call [46-01] Conference Points
Z8	Newspaper Agate Line [46-01] Newspaper Agate Line
ZA	Bimonthly [46-01] Bimonthly
ZB	Biweekly [46-01] Biweekly
ZC	Semiannual [46-01] Semiannual
ZP	Page [46-01] Page
ZZ	Mutually Defined [46-01] Mutually Defined

M	LH102	80	Lading Quantity Number of units (pieces) of the lading commodity [46-02] HAZMAT - Lading Quantity Contains the number of units (pieces) of the lading commodity that is hazardous. Reference 49 CFR 172.202(c).	M	N0 1/7
>>	LH103	277	UN/NA Identification Code 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 [46-03] HAZMAT - UN/NA Identification Code Contains the United Nations/North America (UN/NA) code. Value 'UN' appears in the first two positions for UN codes. Value 'NA' appears in the first two positions for NA codes. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	O	ID 6/6
X	LH104	200	Hazardous Materials Page	O	AN 1/6
	LH105	22	Commodity Code Code describing a commodity or group of commodities [46-05] HAZMAT - Description Use this element for clear text description for mandatory HAZMAT reporting such as, English and metric net explosive weights, ammunition round count, or number of hazardous pieces.	O	AN 1/30
	LH106	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 [46-06] HAZMAT - Unit or Basis for Measurement Code Use the unit of measure codes for quantity or volume of non-bulk shipments. This will typically be pounds, cubic feet, or a unit of measure other than pieces. If the weight of the hazardous material is measured in other than the above listed weight units of measure, refer to X12 Standard DE 355. (Use LH101 to express type of packaging.) ELEMENT CONDITION: Required if LH107 is used.	O	ID 2/2
		01	Actual Pounds [46-06] Actual Pounds		
		02	Statute Mile [46-06] Statute Mile		
		03	Seconds [46-06] Seconds		
		04	Small Spray [46-06] Small Spray		
		05	Lifts [46-06] Lifts		
		06	Digits Expresses a value using total number of digits, e.g., 6 digits [46-06] Digits		
		07	Strand [46-06] Strand		
		08	Heat Lots [46-06] Heat Lots		
		09	Tire [46-06] Tire		
		10	Group [46-06] Group		
		11	Outfit		

	[46-06] Outfit
12	Packet
	[46-06] Packet
13	Ration
	[46-06] Ration
14	Shot
	[46-06] Shot
15	Stick
	[46-06] Stick
16	115 Kilogram Drum
	A cylindrical container whose contents weigh 115 kilograms when full
	[46-06] 115 Kilogram Drum
17	100 Pound Drum
	A cylindrical container whose contents weigh 100 pounds when full
	[46-06] 100 Pound Drum
18	55 Gallon Drum
	A cylindrical container whose volume is equal to 55 gallons
	[46-06] 55 Gallon Drum
19	Tank Truck
	A liquid-carrying highway vehicle whose volume is variable according to the customer's needs and which is used as a measure of goods ordered, sold, and delivered; differs from a tank car which transports liquids by rail
	[46-06] Tank Truck
1A	Car Mile
	One freight car moving one mile
	[46-06] Car Mile
1B	Car Count
	The number of freight cars moving over a specified track
	[46-06] Car Count
1C	Locomotive Count
	The number of locomotives moved over a specified track
	[46-06] Locomotive Count
1D	Caboose Count
	The number of cabooses moved over a specified track
	[46-06] Caboose Count
1E	Empty Car
	Unloaded or empty cars moving over a specified track
	[46-06] Empty Car
1F	Train Mile
	The first locomotive in a train moving one mile
	[46-06] Train Mile
1G	Fuel Usage (Gallons)
	The number of gallons of diesel fuel used to move a train or all trains over specified trackage
	[46-06] Fuel Usage (Gallons)
1H	Caboose Mile
	One caboose moving one mile
	[46-06] Caboose Mile
1I	Fixed Rate

	Indicates a predetermined or set rate for usage of a facility
	[46-06] Fixed Rate
1J	Ton Miles Tons of freight multiplied by the number of times moved; includes non-revenue freight such as material used to maintain trackage and right-of-way
	[46-06] Ton Miles
1K	Locomotive Mile One locomotive moving one mile
	[46-06] Locomotive Mile
1L	Total Car Count The sum of cars, locomotives, and cabooses moving over a specified track; the conversion rate for locomotives and cabooses is set by contract
	[46-06] Total Car Count
1M	Total Car Mile The sum of car miles, locomotive miles, and caboose miles moved over a specified track; the conversion rate for locomotives and cabooses is set by contract
	[46-06] Total Car Mile
1N	Count
	[46-06] Count
1O	Season
	[46-06] Season
1P	Tank Car
	[46-06] Tank Car
1Q	Frames
	[46-06] Frames
1R	Transactions
	[46-06] Transactions
1X	Quarter Mile
	[46-06] Quarter Mile
20	20 Foot Container A sea-land rectangular container box whose capacity is defined by its longest dimension and by which product shipments are measured and billed
	[46-06] 20 Foot Container
21	40 Foot Container A sea-land rectangular container box whose capacity is defined by its longest dimension and by which product shipments are measured and billed
	[46-06] 40 Foot Container
22	Deciliter per Gram Represents viscosity, Cuene intrinsic viscosity, and limit intrinsic viscosity
	[46-06] Deciliter per Gram
23	Grams per Cubic Centimeter Represents product density
	[46-06] Grams per Cubic Centimeter
24	Theoretical Pounds
	[46-06] Theoretical Pounds
25	Grams per Square Centimeter Represents product basis weight
	[46-06] Grams per Square Centimeter

26	Actual Tons [46-06] Actual Tons
27	Theoretical Tons [46-06] Theoretical Tons
28	Kilograms per Square Meter Represents product basis weight [46-06] Kilograms per Square Meter
29	Pounds per 1000 Square Feet Represents product basis weight [46-06] Pounds per 1000 Square Feet
2A	Radians Per Second Measure of angular velocity [46-06] Radians Per Second
2B	Radians Per Second Squared Measure of angular acceleration [46-06] Radians Per Second Squared
2C	Roentgen Unit of X-radiation or gamma radiation equal to the amount of radiation that produces in one cubic centimeter of dry air at 0 degrees Celsius and standard atmospheric pressure ionization of either sign equal to one electrostatic unit of charge [46-06] Roentgen
2F	Volts Per Meter Measure of electrical field strength [46-06] Volts Per Meter
2G	Volts (Alternating Current) Measure of electrical potential [46-06] Volts (Alternating Current)
2H	Volts (Direct Current) Measure of electrical potential [46-06] Volts (Direct Current)
2I	British Thermal Units (BTUs) Per Hour British thermal units per hour [46-06] British Thermal Units (BTUs) Per Hour
2J	Cubic Centimeters Per Second Rate of flow [46-06] Cubic Centimeters Per Second
2K	Cubic Feet Per Hour Rate of flow [46-06] Cubic Feet Per Hour
2L	Cubic Feet Per Minute Rate of flow [46-06] Cubic Feet Per Minute
2M	Centimeters Per Second Rate of speed [46-06] Centimeters Per Second
2N	Decibels A unit for expressing the relative intensity of sounds on a scale of 0 for the least perceptible sound to about 130 for the average pain level [46-06] Decibels

2P	Kilobyte Unit of computer storage capacity equal to 1000 bytes [46-06] Kilobyte
2Q	Kilobecquerel Unit of radiation [46-06] Kilobecquerel
2R	Kilocurie Unit of radiation [46-06] Kilocurie
2U	Megagram Unit of mass [46-06] Megagram
2V	Megagrams Per Hour [46-06] Megagrams Per Hour
2W	Bin Storage container used as a unit of measurement [46-06] Bin
2X	Meters Per Minute Measure of linear speed [46-06] Meters Per Minute
2Y	Milliroentgen Unit of radiation [46-06] Milliroentgen
2Z	Millivolts Unit of electrical potential [46-06] Millivolts
30	Horsepower Days per Air Dry Metric Tons Represents the energy requirements for processing a product [46-06] Horsepower Days per Air Dry Metric Tons
31	Catchweight [46-06] Catchweight
32	Kilograms per Air Dry Metric Tons Represents chemical addition rate during product manufacture or chemical addition within the finished product [46-06] Kilograms per Air Dry Metric Tons
33	Kilopascal Square Meters per Gram Represents burst index measurement for pulp products [46-06] Kilopascal Square Meters per Gram
34	Kilopascals per Millimeter Represents hardness index of pulp products [46-06] Kilopascals per Millimeter
35	Milliliters per Square Centimeter Second Represents porosity of a sheet of material [46-06] Milliliters per Square Centimeter Second
36	Cubic Feet per Minute per Square Foot Represents porosity of a sheet of material [46-06] Cubic Feet per Minute per Square Foot
37	Ounces per Square Foot Represents sheet weight [46-06] Ounces per Square Foot

38	Ounces per Square Foot per 0.01 Inch Represents sheet density [46-06] Ounces per Square Foot per 0.01 Inch
39	Basis Points [46-06] Basis Points
3B	Megajoule Unit of energy or heat [46-06] Megajoule
3C	Manmonth Measure of work output by a single person during a typical work month [46-06] Manmonth
3E	Pounds Per Pound of Product [46-06] Pounds Per Pound of Product
3F	Kilograms Per Liter of Product [46-06] Kilograms Per Liter of Product
3G	Pounds Per Piece of Product [46-06] Pounds Per Piece of Product
3H	Kilograms Per Kilogram of Product [46-06] Kilograms Per Kilogram of Product
3I	Kilograms Per Piece of Product [46-06] Kilograms Per Piece of Product
40	Milliliter per Second Represents rate of absorbency [46-06] Milliliter per Second
41	Milliliter per Minute Represents rate of absorbency [46-06] Milliliter per Minute
43	Super Bulk Bag A cloth, plastic, or paper-based bag having the dimensions of the pallet on which it is constructed and varying in height according to the weight and density of product contained; typically transports dry, loose materials in bulk form [46-06] Super Bulk Bag
44	500 Kilogram Bulk Bag A flexible container for bulk goods whose contents weigh 500 kilograms when full [46-06] 500 Kilogram Bulk Bag
45	300 Kilogram Bulk Bag A flexible container for bulk goods whose contents weigh 300 kilograms when full [46-06] 300 Kilogram Bulk Bag
46	25 Kilogram Bulk Bag A flexible container for bulk goods whose contents weigh 25 kilograms when full [46-06] 25 Kilogram Bulk Bag
47	50 Pound Bag A flexible container whose contents weigh 50 pounds when full [46-06] 50 Pound Bag
48	Bulk Car Load A fully loaded rail car containing dry bulk loose materials

	[46-06] Bulk Car Load
4A	Bobbin A cylinder or spindle on which yarn or thread is wound
	[46-06] Bobbin
4B	Cap Designates that the cap of a container is manufactured to dimensions that enable it to be used as a measuring device when mixing the contents of the container with another substance
	[46-06] Cap
4C	Centistokes 1×10^{-6} square meters/second
	[46-06] Centistokes
4D	Curie A unit of radioactivity equal to 3.7×10^{10} disintegrations per second
	[46-06] Curie
4E	20-Pack Pack containing 20 units
	[46-06] 20-Pack
4F	100-Pack Pack containing 100 units
	[46-06] 100-Pack
4G	Microliter 1/1,000,000 liter
	[46-06] Microliter
4H	Micrometer 1/1,000,000 meter
	[46-06] Micrometer
4I	Meters Per Second Measure of linear speed
	[46-06] Meters Per Second
4J	Meters Per Second Per Second Measure of acceleration
	[46-06] Meters Per Second Per Second
4K	Milliamperes Unit of electrical current
	[46-06] Milliamperes
4L	Megabyte Unit of computer storage capacity
	[46-06] Megabyte
4M	Milligrams Per Hour Unit of flow
	[46-06] Milligrams Per Hour
4N	Megabecquerel Unit of radiation
	[46-06] Megabecquerel
4O	Microfarad Unit of electrical capacitance
	[46-06] Microfarad
4P	Newtons Per Meter Unit of measure for surface tension

	[46-06] Newtons Per Meter
4Q	Ounce Inch Unit of torque
	[46-06] Ounce Inch
4R	Ounce Foot Unit of torque
	[46-06] Ounce Foot
4S	Pascal Unit of pressure
	[46-06] Pascal
4T	Picofarad Unit of electrical capacitance
	[46-06] Picofarad
4U	Pounds Per Hour Rate of flow
	[46-06] Pounds Per Hour
4V	Cubic Meter Per Hour Rate of flow
	[46-06] Cubic Meter Per Hour
4W	Ton Per Hour Rate of flow
	[46-06] Ton Per Hour
4X	Kiloliter Per Hour Rate of flow
	[46-06] Kiloliter Per Hour
50	Actual Kilograms
	[46-06] Actual Kilograms
51	Actual Tonnes
	[46-06] Actual Tonnes
52	Credits
	[46-06] Credits
53	Theoretical Kilograms
	[46-06] Theoretical Kilograms
54	Theoretical Tonnes
	[46-06] Theoretical Tonnes
56	Sitas
	[46-06] Sitas
57	Mesh Linear measurement of the open area of screen, net, weave, or similarly constructed item
	[46-06] Mesh
58	Net Kilograms
	[46-06] Net Kilograms
59	Parts Per Million
	[46-06] Parts Per Million
5A	Barrels per Minute The number of 42 gallon barrels pumped or mixed in a time period of one minute
	[46-06] Barrels per Minute
5B	Batch The quantity of material produced at one operation
	[46-06] Batch

5C	Gallons per Thousand The number of gallons of a component material used per one thousand gallons of a process made [46-06] Gallons per Thousand
5E	MMSCF/Day One million standard cubic feet of gas per day [46-06] MMSCF/Day
5F	Pounds per Thousand The number of pounds of solid material used in each 1000 gallons of fluid, mixed or pumped [46-06] Pounds per Thousand
5G	Pump The number of pumps used on a specific job [46-06] Pump
5H	Stage A period or step in a process or development [46-06] Stage
5I	Standard Cubic Foot One cubic foot of gas measured at a fixed temperature and pressure; the value used for the temperature and pressure varies depending on the type of gas being measured [46-06] Standard Cubic Foot
5J	Hydraulic Horse Power A calculated measure of Horse Power using the formula rate (barrels per minute) times pressure (pounds per square inch) divided by 40.8 [46-06] Hydraulic Horse Power
5K	Count per Minute [46-06] Count per Minute
5P	Seismic Level [46-06] Seismic Level
5Q	Seismic Line [46-06] Seismic Line
60	Percent Weight [46-06] Percent Weight
61	Parts Per Billion [46-06] Parts Per Billion
62	Percent Per 1000 Hours [46-06] Percent Per 1000 Hours
63	Failure Rate In Time [46-06] Failure Rate In Time
64	Pounds Per Square Inch Gauge [46-06] Pounds Per Square Inch Gauge
65	Coulomb Unit of charge [46-06] Coulomb
66	Oersteds [46-06] Oersteds
67	Siemens Unit of admittance [46-06] Siemens
68	Ampere [46-06] Ampere

69	Test Specific Scale
	[46-06] Test Specific Scale
70	Volt
	[46-06] Volt
71	Volt-Ampere Per Pound
	[46-06] Volt-Ampere Per Pound
72	Watts Per Pound
	[46-06] Watts Per Pound
73	Ampere Turn Per Centimeter
	[46-06] Ampere Turn Per Centimeter
74	Milli Pascals
	[46-06] Milli Pascals
76	Gauss
	[46-06] Gauss
77	Mil
	[46-06] Mil
78	Kilogauss
	[46-06] Kilogauss
79	Electron Volt
	[46-06] Electron Volt
80	Pounds Per Square Inch Absolute
	[46-06] Pounds Per Square Inch Absolute
81	Henry
	Unit of inductance
	[46-06] Henry
82	Ohm
	Unit of resistance
	[46-06] Ohm
83	Farad
	Unit of capacitance
	[46-06] Farad
84	Kilo Pounds Per Square Inch (KSI)
	[46-06] Kilo Pounds Per Square Inch (KSI)
85	Foot Pounds
	[46-06] Foot Pounds
86	Joules
	[46-06] Joules
87	Pounds per Cubic Foot
	[46-06] Pounds per Cubic Foot
89	Poise
	[46-06] Poise
8C	Cord
	[46-06] Cord
8D	Duty
	[46-06] Duty
8P	Project
	[46-06] Project
8R	Program
	[46-06] Program
8S	Session
	[46-06] Session

8U	Square Kilometer [46-06] Square Kilometer
90	Saybold Universal Second A measure of kinematic viscosity, usually of oil [46-06] Saybold Universal Second
91	Stokes [46-06] Stokes
92	Calories per Cubic Centimeter [46-06] Calories per Cubic Centimeter
93	Calories per Gram [46-06] Calories per Gram
94	Curl Units [46-06] Curl Units
95	20,000 Gallon Tankcar A 20,000 gallon liquid capacity enclosed rail car [46-06] 20,000 Gallon Tankcar
96	10,000 Gallon Tankcar A 10,000 gallon liquid capacity enclosed rail car [46-06] 10,000 Gallon Tankcar
97	10 Kilogram Drum A cylindrical container whose contents weigh 10 kilograms when full [46-06] 10 Kilogram Drum
98	15 Kilogram Drum A cylindrical container whose contents weigh 15 kilograms when full [46-06] 15 Kilogram Drum
99	Watt [46-06] Watt
A8	Dollars per Hours A rate expressed in dollars per hour to be charged for each hour worked [46-06] Dollars per Hours
AA	Ball [46-06] Ball
AB	Bulk Pack [46-06] Bulk Pack
AC	Acre [46-06] Acre
AD	Bytes A computer string of data that consists of a quantity of bits, treated as a unit; a bit is a binary digit [46-06] Bytes
AE	Amperes per Meter [46-06] Amperes per Meter
AF	Centigram A unit of metric weight equal to 0.01 gram or 0.000035 ounce [46-06] Centigram
AG	Angstrom [46-06] Angstrom
AH	Additional Minutes The minutes, usually associated with usage-sensitive

	pricing of telecommunication services, which are above the minutes allowed for that particular service
	[46-06] Additional Minutes
AI	Average Minutes Per Call
	The total number of minutes of a category of calls divided by the total number of calls within the category for telephone services calculated to provide call summary details
	[46-06] Average Minutes Per Call
AJ	Cop
	A cylindrical or conical mass of thread, yarn, or cable on a quill or a tube
	[46-06] Cop
AK	Fathom
	A unit of length equal to 6.0 feet or 1.829 meters
	[46-06] Fathom
AL	Access Lines
	Number of lines subject to Carrier Access Line Charges
	[46-06] Access Lines
AM	Ampoule
	[46-06] Ampoule
AN	Minutes or Messages
	Number of minutes or messages contracted or used in telephone services where either the number of minutes or messages are the unit of measure for the calculation of charges
	[46-06] Minutes or Messages
AO	Ampere-turn
	[46-06] Ampere-turn
AP	Aluminum Pounds Only
	[46-06] Aluminum Pounds Only
AQ	Anti-hemophilic Factor (AHF) Units
	Intravenous administering of blood products that have been tested for potency against the U.S. medical unit of measure
	[46-06] Anti-hemophilic Factor (AHF) Units
AR	Suppository
	[46-06] Suppository
AS	Assortment
	[46-06] Assortment
AT	Atmosphere
	Equal to the pressure of the air at sea level, or approximately 14.7 pounds per square inch
	[46-06] Atmosphere
AU	Ocular Insert System
	A drug delivery system which is placed in the lower conjunctival fornix from which the drug diffuses through a membrane at a constant rate over a seven-day period
	[46-06] Ocular Insert System
AV	Capsule
	A compact metallic or plastic container for liquids or solids
	[46-06] Capsule
AW	Powder-Filled Vials
	Standard unit of intravenous blood product that has to be

	reconstituted with a liquid before being administered
	[46-06] Powder-Filled Vials
AX	Twenty
	20 each of an item of supply
	[46-06] Twenty
AY	Assembly
	[46-06] Assembly
AZ	British Thermal Units (BTUs) per Pound
	[46-06] British Thermal Units (BTUs) per Pound
B0	British Thermal Units (BTUs) per Cubic Foot
	[46-06] British Thermal Units (BTUs) per Cubic Foot
B1	Barrels per Day
	[46-06] Barrels per Day
B2	Bunks
	[46-06] Bunks
B3	Batting Pound
	[46-06] Batting Pound
B4	Barrel, Imperial
	[46-06] Barrel, Imperial
B5	Billet
	[46-06] Billet
B6	Bun
	[46-06] Bun
B7	Cycles
	[46-06] Cycles
B8	Board
	[46-06] Board
B9	Batt
	[46-06] Batt
BA	Bale
	[46-06] Bale
BB	Base Box
	[46-06] Base Box
BC	Bucket
	[46-06] Bucket
BD	Bundle
	[46-06] Bundle
BE	Beam
	[46-06] Beam
BF	Board Feet
	[46-06] Board Feet
BG	Bag
	[46-06] Bag
BH	Brush
	[46-06] Brush
BI	Bar
	A centimeter-gram-second unit of pressure, equal to one million dynes per square centimeter
	[46-06] Bar
BJ	Band
	[46-06] Band

BK	Book [46-06] Book
BL	Block [46-06] Block
BM	Bolt [46-06] Bolt
BN	Bulk [46-06] Bulk
BO	Bottle [46-06] Bottle
BP	100 Board Feet [46-06] 100 Board Feet
BQ	Brake horse power The horsepower made available by an engine or turbine for driving machinery other than itself [46-06] Brake horse power
BR	Barrel [46-06] Barrel
BS	Basket [46-06] Basket
BT	Belt [46-06] Belt
BU	Bushel 32 dry quarts [46-06] Bushel
BV	Bushel, Dry Imperial [46-06] Bushel, Dry Imperial
BW	Base Weight [46-06] Base Weight
BX	Box [46-06] Box
BY	British Thermal Unit (BTU) [46-06] British Thermal Unit (BTU)
BZ	Million BTU's [46-06] Million BTU's
C0	Calls Number of calls handled [46-06] Calls
C1	Composite Product Pounds (Total Weight) [46-06] Composite Product Pounds (Total Weight)
C2	Carset [46-06] Carset
C3	Centiliter [46-06] Centiliter
C4	Carload [46-06] Carload
C5	Cost [46-06] Cost
C6	Cell [46-06] Cell
C7	Centipoise (CPS)

	[46-06] Centipoise (CPS)
C8	Cubic Decimeter
	[46-06] Cubic Decimeter
C9	Coil Group
	[46-06] Coil Group
CA	Case
	[46-06] Case
CB	Carboy
	[46-06] Carboy
CC	Cubic Centimeter
	[46-06] Cubic Centimeter
CD	Carat
	[46-06] Carat
CE	Centigrade, Celsius
	[46-06] Centigrade, Celsius
CF	Cubic Feet
	[46-06] Cubic Feet
CG	Card
	[46-06] Card
CH	Container
	[46-06] Container
CI	Cubic Inches
	[46-06] Cubic Inches
CJ	Cone
	[46-06] Cone
CK	Connector
	[46-06] Connector
CL	Cylinder
	[46-06] Cylinder
CM	Centimeter
	[46-06] Centimeter
CN	Can
	[46-06] Can
CO	Cubic Meters (Net)
	[46-06] Cubic Meters (Net)
CP	Crate
	[46-06] Crate
CQ	Cartridge
	[46-06] Cartridge
CR	Cubic Meter
	[46-06] Cubic Meter
CS	Cassette
	[46-06] Cassette
CT	Carton
	[46-06] Carton
CU	Cup
	[46-06] Cup
CV	Cover
	[46-06] Cover
CW	Hundred Pounds (CWT)
	[46-06] Hundred Pounds (CWT)

CX	Coil [46-06] Coil
CY	Cubic Yard [46-06] Cubic Yard
CZ	Combo [46-06] Combo
D2	Shares [46-06] Shares
D3	Square Decimeter Metric unit of area [46-06] Square Decimeter
D5	Kilogram Per Square Centimeter Unit of pressure [46-06] Kilogram Per Square Centimeter
D8	Draize Score [46-06] Draize Score
D9	Dyne per Square Centimeter [46-06] Dyne per Square Centimeter
DA	Days [46-06] Days
DB	Dry Pounds [46-06] Dry Pounds
DC	Disk (Disc) [46-06] Disk (Disc)
DD	Degree [46-06] Degree
DE	Deal [46-06] Deal
DF	Dram [46-06] Dram
DG	Decigram [46-06] Decigram
DH	Miles [46-06] Miles
DI	Dispenser [46-06] Dispenser
DJ	Decagram [46-06] Decagram
DK	Kilometers [46-06] Kilometers
DL	Deciliter [46-06] Deciliter
DM	Decimeter [46-06] Decimeter
DN	Deci Newton-Meter One tenth of a Newton-meter, representing torque. A Newton-meter represents force times distance [46-06] Deci Newton-Meter
DO	Dollars, U.S. [46-06] Dollars, U.S.
DP	Dozen Pair

	[46-06] Dozen Pair
DQ	Data Records Number of Data Records handled
	[46-06] Data Records
DR	Drum
	[46-06] Drum
DS	Display
	[46-06] Display
DT	Dry Ton
	[46-06] Dry Ton
DU	Dyne The unit of force in the cgs system equal to the force that would give a free mass of one gram an acceleration of one centimeter per second
	[46-06] Dyne
DW	Calendar Days
	[46-06] Calendar Days
DX	Dynes per Centimeter Unit of surface tension
	[46-06] Dynes per Centimeter
DY	Directory Books Number of directory books delivered to customer
	[46-06] Directory Books
DZ	Dozen
	[46-06] Dozen
E1	Hectometer A unit of metric length equal to 109.36 yards or 0.062 mile
	[46-06] Hectometer
E3	Inches, Fraction--Average
	[46-06] Inches, Fraction--Average
E4	Inches, Fraction--Minimum
	[46-06] Inches, Fraction--Minimum
E5	Inches, Fraction--Actual
	[46-06] Inches, Fraction--Actual
E7	Inches, Decimal--Average
	[46-06] Inches, Decimal--Average
E8	Inches, Decimal--Actual
	[46-06] Inches, Decimal--Actual
E9	English, (Feet, Inches)
	[46-06] English, (Feet, Inches)
EA	Each
	[46-06] Each
EB	Electronic Mail Boxes Number of Electronic Mail Boxes established for an account
	[46-06] Electronic Mail Boxes
EC	Each per Month
	[46-06] Each per Month
ED	Inches, Decimal--Nominal
	[46-06] Inches, Decimal--Nominal
EE	Employees

	[46-06] Employees
EF	Inches, Fraction-Nominal
	[46-06] Inches, Fraction-Nominal
EG	Double-time Hours
	[46-06] Double-time Hours
EH	Knots
	[46-06] Knots
EJ	Locations
	[46-06] Locations
EM	Inches, Decimal-Minimum
	[46-06] Inches, Decimal-Minimum
EP	Eleven pack
	[46-06] Eleven pack
EQ	Equivalent Gallons
	Represents number of gallons that syrup and concentrate make of product
	[46-06] Equivalent Gallons
EV	Envelope
	[46-06] Envelope
EX	Feet, Inches and Fraction
	[46-06] Feet, Inches and Fraction
EY	Feet, Inches and Decimal
	[46-06] Feet, Inches and Decimal
EZ	Feet and Decimal
	[46-06] Feet and Decimal
F1	Thousand Cubic Feet Per Day
	The unit of measure of the rate of production of a gas
	[46-06] Thousand Cubic Feet Per Day
F2	International Unit
	A unit accepted by an international agency; potency of a drug/vitamin based on a specific weight of that drug/vitamin
	[46-06] International Unit
F3	Equivalent
	Weight of a substance which combines with or replaces one gram atomic weight of hydrogen
	[46-06] Equivalent
F4	Minim
	An apothecary's fluid measure; 60 minims = 1 fluid gram (approx. 5 cc)
	[46-06] Minim
F5	MOL
	Gram-molecular weight of a gas
	[46-06] MOL
F6	Price Per Share
	[46-06] Price Per Share
F9	Fibers per Cubic Centimeter of Air
	[46-06] Fibers per Cubic Centimeter of Air
FA	Fahrenheit
	[46-06] Fahrenheit
FB	Fields
	[46-06] Fields

FC	1000 Cubic Feet [46-06] 1000 Cubic Feet
FD	Million Particles per Cubic Foot [46-06] Million Particles per Cubic Foot
FE	Track Foot Represents rails, all ties and fittings, and subgrade [46-06] Track Foot
FF	Hundred Cubic Meters A unit of metric volume equal to 131.0 cubic yards [46-06] Hundred Cubic Meters
FG	Transdermal Patch A drug delivery system which is placed on the skin and releases a drug at a constant rate through the skin [46-06] Transdermal Patch
FH	Micromolar One millionth of a mole; a mole is a standard chemical unit [46-06] Micromolar
FJ	Sizing Factor [46-06] Sizing Factor
FK	Fibers [46-06] Fibers
FL	Flake Ton [46-06] Flake Ton
FM	Million Cubic Feet [46-06] Million Cubic Feet
FO	Fluid Ounce [46-06] Fluid Ounce
FP	Pounds per Sq. Ft. [46-06] Pounds per Sq. Ft.
FR	Feet Per Minute Measure of linear speed [46-06] Feet Per Minute
FS	Feet Per Second Measure of linear speed [46-06] Feet Per Second
FT	Foot [46-06] Foot
FZ	Fluid Ounce (Imperial) A liquid unit of measure equal to 1/20 (.05) pint (Imperial), 28.416 cubic centimeters, or 28.416 milliliters [46-06] Fluid Ounce (Imperial)
G2	U.S. Gallons Per Minute Rate of flow [46-06] U.S. Gallons Per Minute
G3	Imperial Gallons Per Minute Rate of flow [46-06] Imperial Gallons Per Minute
G4	Gigabecquerel Unit of radiation equal to 27 millicuries [46-06] Gigabecquerel
G5	Gill (Imperial)

	A unit of liquid or dry measure equal to 5 fluid ounces, 8.669 cubic inches, or 142.066 cubic centimeters [46-06] Gill (Imperial)
G7	Microfiche Sheet A film that contains photographed documents greatly reduced in size [46-06] Microfiche Sheet
GA	Gallon [46-06] Gallon
GB	Gallons/Day [46-06] Gallons/Day
GC	Grams per 100 Grams [46-06] Grams per 100 Grams
GD	Gross Barrels [46-06] Gross Barrels
GE	Pounds per Gallon [46-06] Pounds per Gallon
GF	Grams per 100 Centimeters [46-06] Grams per 100 Centimeters
GG	Great Gross (Dozen Gross) [46-06] Great Gross (Dozen Gross)
GH	Half Gallon [46-06] Half Gallon
GI	Imperial Gallons [46-06] Imperial Gallons
GJ	Grams per Milliliter [46-06] Grams per Milliliter
GK	Grams per Kilogram [46-06] Grams per Kilogram
GL	Grams per Liter [46-06] Grams per Liter
GM	Grams per Sq. Meter [46-06] Grams per Sq. Meter
GN	Gross Gallons [46-06] Gross Gallons
GO	Milligrams per Square Meter [46-06] Milligrams per Square Meter
GP	Milligrams per Cubic Meter [46-06] Milligrams per Cubic Meter
GQ	Micrograms per Cubic Meter [46-06] Micrograms per Cubic Meter
GR	Gram [46-06] Gram
GS	Gross [46-06] Gross
GT	Gross Kilogram Represents kilograms of product and package or container [46-06] Gross Kilogram
GU	Gauss per Oersteds [46-06] Gauss per Oersteds
GV	Gigajoules One billion joules; standard method of expressing

	absolute heating value of natural gas regardless of volume in the Canadian oil and gas industries [46-06] Gigajoules
GW	Gallons Per Thousand Cubic Feet [46-06] Gallons Per Thousand Cubic Feet
GX	Grain A small unit of weight equal to 1/480 (.002083) troy ounce, or 0.0648 gram [46-06] Grain
GY	Gross Yard [46-06] Gross Yard
GZ	Gage Systems [46-06] Gage Systems
H1	Half Pages - Electronic Number of electronic half pages of data delivered [46-06] Half Pages - Electronic
H2	Half Liter Unit of capacity equal to 1/2 liter [46-06] Half Liter
H4	Hectoliter Metric measure for 100 liters [46-06] Hectoliter
HA	Hank One hundred feet of rope [46-06] Hank
HB	Hundred Boxes [46-06] Hundred Boxes
HC	Hundred Count [46-06] Hundred Count
HD	Half Dozen [46-06] Half Dozen
HE	Hundredth of a Carat [46-06] Hundredth of a Carat
HF	Hundred Feet [46-06] Hundred Feet
HG	Hectogram [46-06] Hectogram
HH	Hundred Cubic Feet [46-06] Hundred Cubic Feet
HI	Hundred Sheets [46-06] Hundred Sheets
HJ	Horsepower [46-06] Horsepower
HK	Hundred Kilograms [46-06] Hundred Kilograms
HL	Hundred Feet - Linear [46-06] Hundred Feet - Linear
HM	Miles Per Hour [46-06] Miles Per Hour
HN	Millimeters of Mercury [46-06] Millimeters of Mercury
HO	Hundred Troy Ounces

	[46-06] Hundred Troy Ounces
HP	Millimeter H2O Unit of pressure
	[46-06] Millimeter H2O
HQ	Hectare
	[46-06] Hectare
HR	Hours
	[46-06] Hours
HS	Hundred Square Feet
	[46-06] Hundred Square Feet
HT	Half Hour
	[46-06] Half Hour
HU	Hundred
	[46-06] Hundred
HV	Hundred Weight (Short)
	[46-06] Hundred Weight (Short)
HW	Hundred Weight (Long)
	[46-06] Hundred Weight (Long)
HY	Hundred Yards
	[46-06] Hundred Yards
HZ	Hertz
	[46-06] Hertz
IA	Inch Pound Unit of torque
	[46-06] Inch Pound
IB	Inches Per Second (Vibration Velocity) Measure of vibration velocity
	[46-06] Inches Per Second (Vibration Velocity)
IC	Counts per Inch
	[46-06] Counts per Inch
IE	Person
	[46-06] Person
IF	Inches of Water The maximum differential pressure for which a given meter will measure accurately and is expressed in inches of water
	[46-06] Inches of Water
IH	Inhaler Metered-dose pressurized method of getting medication into the lungs or nasal passages
	[46-06] Inhaler
II	Column-Inches A unit of area one column wide and one inch high
	[46-06] Column-Inches
IK	Peaks per Inch (PPI)
	[46-06] Peaks per Inch (PPI)
IL	Inches per Minute
	[46-06] Inches per Minute
IM	Impressions
	[46-06] Impressions
IN	Inch
	[46-06] Inch

IP	Insurance Policy An individual insurance contract [46-06] Insurance Policy
IT	Counts per Centimeter [46-06] Counts per Centimeter
IU	Inches Per Second (Linear Speed) Measure of linear speed [46-06] Inches Per Second (Linear Speed)
IV	Inches Per Second Per Second (Acceleration) Measure of acceleration [46-06] Inches Per Second Per Second (Acceleration)
IW	Inches Per Second Per Second (Vibration Acceleration) Measure of vibration acceleration [46-06] Inches Per Second Per Second (Vibration Acceleration)
J2	Joule Per Kilogram Measure of specific energy [46-06] Joule Per Kilogram
JA	Job [46-06] Job
JB	Jumbo [46-06] Jumbo
JE	Joule Per Kelvin Measure of heat capacity [46-06] Joule Per Kelvin
JG	Joule per Gram Joule is unit of energy and gram is unit of mass [46-06] Joule per Gram
JK	Mega Joule per Kilogram "Mega" means "millions" and "kilo" means "thousands" [46-06] Mega Joule per Kilogram
JM	Megajoule/Cubic Meter A megajoule is one million joules; conventional measurements for expressing the heating value available in a given volume of gas [46-06] Megajoule/Cubic Meter
JO	Joint [46-06] Joint
JR	Jar [46-06] Jar
JU	Jug [46-06] Jug
K1	Kilowatt Demand Represents potential power load measured at predetermined intervals [46-06] Kilowatt Demand
K2	Kilovolt Amperes Reactive Demand Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter [46-06] Kilovolt Amperes Reactive Demand
K3	Kilovolt Amperes Reactive Hour Represents actual electricity equivalent to kilowatt hours;

	billable when usage meets or exceeds defined parameters [46-06] Kilovolt Amperes Reactive Hour
K4	Kilovolt Amperes Measure of electrical power [46-06] Kilovolt Amperes
K5	Kilovolt Amperes Reactive Measure of electrical power [46-06] Kilovolt Amperes Reactive
K6	Kiloliter One thousand liters [46-06] Kiloliter
K7	Kilowatt Measure of electrical power [46-06] Kilowatt
K9	Kilograms per Millimeter Squared (KG/MM ²) [46-06] Kilograms per Millimeter Squared (KG/MM ²)
KA	Cake [46-06] Cake
KB	Kilocharacters Kilocharacters of data transmitted [46-06] Kilocharacters
KC	Kilograms per Cubic Meter [46-06] Kilograms per Cubic Meter
KD	Kilograms Decimal [46-06] Kilograms Decimal
KE	Keg A unit of weight equal to 100 pounds, used for nails [46-06] Keg
KF	Kilopackets Kilopackets of data transmitted [46-06] Kilopackets
KG	Kilogram [46-06] Kilogram
KH	Kilowatt Hour [46-06] Kilowatt Hour
KI	Kilograms/Millimeter Width [46-06] Kilograms/Millimeter Width
KJ	Kilosegments Kilosegments of data transmitted [46-06] Kilosegments
KK	100 Kilograms [46-06] 100 Kilograms
KL	Kilograms/Meter [46-06] Kilograms/Meter
KM	Kilograms per Square Meter, Kilograms, Decimal [46-06] Kilograms per Square Meter, Kilograms, Decimal
KO	Millequivalence Caustic Potash per Gram of Product Acid number and saponification number test results have a unit of measure of Millequivalence KOH per Gram [46-06] Millequivalence Caustic Potash per Gram of Product

KP	Kilometers Per Hour [46-06] Kilometers Per Hour
KQ	Kilopascal Represents pressure [46-06] Kilopascal
KR	Kiloroentgen Measure of radiation [46-06] Kiloroentgen
KS	1000 Pounds per Square Inch [46-06] 1000 Pounds per Square Inch
KT	Kit [46-06] Kit
KU	Task [46-06] Task
KV	Kelvin [46-06] Kelvin
KW	Kilograms per Millimeter [46-06] Kilograms per Millimeter
KX	Milliliters per Kilogram [46-06] Milliliters per Kilogram
L2	Liters Per Minute Measure of the rate of flow [46-06] Liters Per Minute
LA	Pounds Per Cubic Inch [46-06] Pounds Per Cubic Inch
LB	Pound [46-06] Pound
LC	Linear Centimeter [46-06] Linear Centimeter
LE	Lite [46-06] Lite
LF	Linear Foot [46-06] Linear Foot
LG	Long Ton 2240 pounds as used in the U.K. [46-06] Long Ton
LH	Labor Hours [46-06] Labor Hours
LI	Linear Inch [46-06] Linear Inch
LJ	Large Spray [46-06] Large Spray
LK	Link [46-06] Link
LL	Lifetime A duration ending with the death of the individual [46-06] Lifetime
LM	Linear Meter [46-06] Linear Meter
LN	Length [46-06] Length

LO	Lot [46-06] Lot
LP	Liquid Pounds [46-06] Liquid Pounds
LQ	Liters Per Day Measure of liquid flow over a given time period [46-06] Liters Per Day
LR	Layer(s) [46-06] Layer(s)
LS	Lump Sum [46-06] Lump Sum
LT	Liter [46-06] Liter
LX	Linear Yards Per Pound [46-06] Linear Yards Per Pound
LY	Linear Yard [46-06] Linear Yard
M0	Magnetic Tapes Number of Magnetic Tapes delivered with data [46-06] Magnetic Tapes
M1	Milligrams per Liter [46-06] Milligrams per Liter
M2	Millimeter-Actual [46-06] Millimeter-Actual
M3	Mat [46-06] Mat
M4	Monetary Value [46-06] Monetary Value
M5	Microcurie [46-06] Microcurie
M6	Millibar [46-06] Millibar
M7	Micro Inch [46-06] Micro Inch
M8	Mega Pascals [46-06] Mega Pascals
M9	Million British Thermal Units per One Thousand Cubic Feet Represents conversion from a volume of gas to the heat value of the gas [46-06] Million British Thermal Units per One Thousand Cubic Feet
MA	Machine/Unit [46-06] Machine/Unit
MB	Millimeter-Nominal [46-06] Millimeter-Nominal
MC	Microgram [46-06] Microgram
MD	Air Dry Metric Ton [46-06] Air Dry Metric Ton
ME	Milligram [46-06] Milligram

MF	Milligram per Sq. Ft. per Side [46-06] Milligram per Sq. Ft. per Side
MG	Metric Gross Ton [46-06] Metric Gross Ton
MH	Microns (Micrometers) 1/1,000,000 meter [46-06] Microns (Micrometers)
MI	Metric [46-06] Metric
MJ	Minutes [46-06] Minutes
MK	Milligrams Per Square Inch [46-06] Milligrams Per Square Inch
ML	Milliliter [46-06] Milliliter
MM	Millimeter [46-06] Millimeter
MN	Metric Net Ton [46-06] Metric Net Ton
MO	Months [46-06] Months
MP	Metric Ton [46-06] Metric Ton
MQ	1000 Meters [46-06] 1000 Meters
MR	Meter [46-06] Meter
MS	Square Millimeter [46-06] Square Millimeter
MT	Metric Long Ton [46-06] Metric Long Ton
MU	Millicurie [46-06] Millicurie
MV	Number of Mults [46-06] Number of Mults
MW	Metric Ton Kilograms [46-06] Metric Ton Kilograms
MX	Mixed [46-06] Mixed
MY	Millimeter-Average [46-06] Millimeter-Average
MZ	Millimeter-minimum [46-06] Millimeter-minimum
N1	Pen Calories Daily calories prescribed to be taken for parenteral/enteral therapy [46-06] Pen Calories
N2	Number of Lines [46-06] Number of Lines
N3	Print Point A print point is approximately .0138"

	[46-06] Print Point
N4	Pen Grams (Protein) Grams of amino acids prescribed to be taken for parenteral/enteral therapy
	[46-06] Pen Grams (Protein)
N6	Megahertz One million cycles per second
	[46-06] Megahertz
N7	Parts
	[46-06] Parts
N9	Cartridge Needle Used with auto-injector units only, a disposable, filled cartridge that includes a needle
	[46-06] Cartridge Needle
NA	Milligrams per Kilogram
	[46-06] Milligrams per Kilogram
NB	Barge
	[46-06] Barge
NC	Car
	[46-06] Car
ND	Net Barrels
	[46-06] Net Barrels
NE	Net Liters
	[46-06] Net Liters
NF	Messages Number of Messages transmitted, or delivered
	[46-06] Messages
NG	Net Gallons
	[46-06] Net Gallons
NH	Message Hours Number of hours used, calculated at some rate basis such as Minutes/message carried
	[46-06] Message Hours
NI	Net Imperial Gallons
	[46-06] Net Imperial Gallons
NJ	Number of Screens Number of data screens handled, or transmitted
	[46-06] Number of Screens
NL	Load
	[46-06] Load
NM	Nautical Mile
	[46-06] Nautical Mile
NN	Train
	[46-06] Train
NQ	Mho The basic unit of electrical conductivity, having a unity value when one ampere of current flows through a conductor to which a one volt difference in electrical potential is applied
	[46-06] Mho
NR	Micro Mho The typical unit of electrical conductivity measurement - one millionth of an Mho

	[46-06] Micro Mho
NS	Short Ton Two thousand pounds
	[46-06] Short Ton
NT	Trailer
	[46-06] Trailer
NU	Newton-Meter Unit of energy or torque
	[46-06] Newton-Meter
NV	Vehicle
	[46-06] Vehicle
NW	Newton Represents force in the International Metric System (SI); equal to the force that produces an acceleration of 1 meter per second on a mass of 1 kilogram
	[46-06] Newton
NX	Parts Per Thousand
	[46-06] Parts Per Thousand
NY	Pounds Per Air-Dry Metric Ton A measure of chemical addition rate during manufacture and product constituent analysis
	[46-06] Pounds Per Air-Dry Metric Ton
OA	Panel
	[46-06] Panel
OC	Billboard
	[46-06] Billboard
ON	Ounces per Square Yard
	[46-06] Ounces per Square Yard
OP	Two pack
	[46-06] Two pack
OT	Overtime Hours
	[46-06] Overtime Hours
OZ	Ounce - Av
	[46-06] Ounce - Av
P0	Pages - Electronic Number of electronic pages of data delivered
	[46-06] Pages - Electronic
P1	Percent
	[46-06] Percent
P2	Pounds per Foot
	[46-06] Pounds per Foot
P3	Three pack
	[46-06] Three pack
P4	Four-pack
	[46-06] Four-pack
P5	Five-pack
	[46-06] Five-pack
P6	Six pack
	[46-06] Six pack
P7	Seven pack
	[46-06] Seven pack
P8	Eight-pack

	[46-06] Eight-pack
P9	Nine pack
	[46-06] Nine pack
PA	Pail
	[46-06] Pail
PB	Pair Inches
	[46-06] Pair Inches
PC	Piece
	[46-06] Piece
PD	Pad
	[46-06] Pad
PE	Pounds Equivalent
	[46-06] Pounds Equivalent
PF	Pallet (Lift)
	[46-06] Pallet (Lift)
PG	Pounds Gross
	[46-06] Pounds Gross
PH	Pack (PAK)
	[46-06] Pack (PAK)
PI	Pitch
	[46-06] Pitch
PJ	Pounds, Decimal - Pounds per Square Foot - Pound Gage
	[46-06] Pounds, Decimal - Pounds per Square Foot - Pound Gage
PK	Package
	[46-06] Package
PL	Pallet/Unit Load
	[46-06] Pallet/Unit Load
PM	Pounds-Percentage
	[46-06] Pounds-Percentage
PN	Pounds Net
	[46-06] Pounds Net
PO	Pounds per Inch of Length
	[46-06] Pounds per Inch of Length
PP	Plate
	[46-06] Plate
PQ	Pages per Inch
	[46-06] Pages per Inch
PR	Pair
	[46-06] Pair
PS	Pounds per Sq. Inch
	[46-06] Pounds per Sq. Inch
PT	Pint
	[46-06] Pint
PU	Mass Pounds
	[46-06] Mass Pounds
PV	Half Pint
	[46-06] Half Pint
PW	Pounds per Inch of Width
	[46-06] Pounds per Inch of Width
PX	Pint, Imperial

	[46-06] Pint, Imperial
PY	Peck, Dry U.S.
	[46-06] Peck, Dry U.S.
PZ	Peck, Dry Imperial
	[46-06] Peck, Dry Imperial
Q1	Quarter (Time)
	[46-06] Quarter (Time)
Q2	Pint U.S. Dry
	Volume equal to 33.6003125 cubic inches
	[46-06] Pint U.S. Dry
Q3	Meal
	A group of food items packaged together for human consumption
	[46-06] Meal
Q4	Fifty
	A unit of issue in which a group of 50 items are consolidated and measured as a single entity
	[46-06] Fifty
Q5	Twenty-Five
	A unit of issue in which a group of 25 items are consolidated and measured as a single entity
	[46-06] Twenty-Five
Q6	Thirty-Six
	A unit of issue in which a group of 36 items are consolidated and measured as a single entity
	[46-06] Thirty-Six
Q7	Twenty-Four
	A unit of issue in which a group of 24 items are consolidated and measured as a single entity
	[46-06] Twenty-Four
QA	Pages - Facsimile
	Number of FAX pages transmitted
	[46-06] Pages - Facsimile
QB	Pages - Hardcopy
	Number of printed pages delivered
	[46-06] Pages - Hardcopy
QC	Channel
	[46-06] Channel
QD	Quarter Dozen
	[46-06] Quarter Dozen
QE	Photographs
	[46-06] Photographs
QH	Quarter Hours
	Number of 15 minute increments of usage handled
	[46-06] Quarter Hours
QK	Quarter Kilogram
	A unit of metric weight equal to 250 grams
	[46-06] Quarter Kilogram
QR	Quire
	[46-06] Quire
QS	Quart, Dry U.S.
	[46-06] Quart, Dry U.S.
QT	Quart

	[46-06] Quart
QU	Quart, Imperial
	[46-06] Quart, Imperial
R1	Pica
	Approximately .166 inches measured from the top of the ascender (the upward stroke in a lowercase letter, such as "t") to the bottom of the descender (the downward stroke in a lowercase letter, such as "p"); twelve points equal one pica; six picas equal approximately one inch (.996)
	[46-06] Pica
R2	Becquerel
	Unit of radiation equal to 3.7×10^{10} of a curie
	[46-06] Becquerel
R3	Revolutions Per Minute
	[46-06] Revolutions Per Minute
R4	Calorie
	The amount of heat it takes to raise the temperature of one gram of water one degree Centigrade at a pressure of one atmosphere
	[46-06] Calorie
R5	Thousands of Dollars
	[46-06] Thousands of Dollars
R6	Millions of Dollars
	[46-06] Millions of Dollars
R7	Billions of Dollars
	[46-06] Billions of Dollars
R8	Roentgen Equivalent in Man (REM)
	[46-06] Roentgen Equivalent in Man (REM)
R9	Thousand Cubic Meters
	[46-06] Thousand Cubic Meters
RA	Rack
	[46-06] Rack
RB	Radian
	[46-06] Radian
RC	Rod (area) - 16.25 Square Yards
	[46-06] Rod (area) - 16.25 Square Yards
RD	Rod (length) - 5.5 Yards
	[46-06] Rod (length) - 5.5 Yards
RE	Reel
	[46-06] Reel
RG	Ring
	[46-06] Ring
RH	Running or Operating Hours
	Measure of accumulated time of machine or piece of equipment has been running
	[46-06] Running or Operating Hours
RK	Roll-Metric Measure
	[46-06] Roll-Metric Measure
RL	Roll
	[46-06] Roll
RM	Ream
	[46-06] Ream
RN	Ream-Metric Measure

	[46-06] Ream-Metric Measure
RO	Round
	[46-06] Round
RP	Pounds per Ream
	[46-06] Pounds per Ream
RS	Resets
	Number of times a transmission is reset due to line drop, interrupt, etc.
	[46-06] Resets
RT	Revenue Ton Miles
	One ton of revenue-generating freight moving one mile
	[46-06] Revenue Ton Miles
RU	Run
	[46-06] Run
S1	Semester
	[46-06] Semester
S2	Trimester
	[46-06] Trimester
S3	Square Feet per Second
	[46-06] Square Feet per Second
S4	Square Meters per Second
	[46-06] Square Meters per Second
S5	Sixty-fourths of an Inch
	[46-06] Sixty-fourths of an Inch
S6	Sessions
	Number of interactive sessions handled
	[46-06] Sessions
S7	Storage Units
	Number of storage increments used
	[46-06] Storage Units
S8	Standard Advertising Units (SAUs)
	A predefined partition of advertising page consisting of column-inch multiples
	[46-06] Standard Advertising Units (SAUs)
S9	Slip Sheet
	A cardboard platform used for holding product for storage or transportation
	[46-06] Slip Sheet
SA	Sandwich
	[46-06] Sandwich
SB	Square Mile
	[46-06] Square Mile
SC	Square Centimeter
	[46-06] Square Centimeter
SD	Solid Pounds
	[46-06] Solid Pounds
SE	Section
	640 acres or one square mile
	[46-06] Section
SF	Square Foot
	[46-06] Square Foot
SG	Segment

	[46-06] Segment
SH	Sheet
	[46-06] Sheet
SI	Square Inch
	[46-06] Square Inch
SJ	Sack
	[46-06] Sack
SK	Split Tanktruck
	[46-06] Split Tanktruck
SL	Sleeve
	[46-06] Sleeve
SM	Square Meter
	[46-06] Square Meter
SN	Square Rod
	[46-06] Square Rod
SO	Spool
	[46-06] Spool
SP	Shelf Package
	[46-06] Shelf Package
SQ	Square
	A unit of measure for roofing materials equal to 100 square feet
	[46-06] Square
SR	Strip
	[46-06] Strip
SS	Sheet-Metric Measure
	[46-06] Sheet-Metric Measure
ST	Set
	[46-06] Set
SV	Skid
	[46-06] Skid
SW	Skein
	[46-06] Skein
SX	Shipment
	[46-06] Shipment
SY	Square Yard
	[46-06] Square Yard
SZ	Syringe
	Glass or plastic barrels used to administer fluid medication under the skin, into a vein artery, or into a muscle
	[46-06] Syringe
T0	Telecommunications Lines in Service
	Snapshot sample of lines in service
	[46-06] Telecommunications Lines in Service
T1	Thousand pounds gross
	[46-06] Thousand pounds gross
T2	Thousandths of an Inch
	[46-06] Thousandths of an Inch
T3	Thousand Pieces
	[46-06] Thousand Pieces
T4	Thousand Bags

	[46-06] Thousand Bags
T5	Thousand Casings
	[46-06] Thousand Casings
T6	Thousand Gallons
	[46-06] Thousand Gallons
T7	Thousand Impressions
	[46-06] Thousand Impressions
T8	Thousand Linear Inches
	[46-06] Thousand Linear Inches
T9	Thousand Kilowatt Hours
	[46-06] Thousand Kilowatt Hours
TA	Tenth Cubic Foot
	[46-06] Tenth Cubic Foot
TB	Tube
	[46-06] Tube
TC	Truckload
	[46-06] Truckload
TD	Therms
	[46-06] Therms
TE	Tote
	[46-06] Tote
TF	Ten Square Yards
	[46-06] Ten Square Yards
TG	Gross Ton
	[46-06] Gross Ton
TH	Thousand
	[46-06] Thousand
TI	Thousand Square Inches
	[46-06] Thousand Square Inches
TJ	Thousand Sq. Centimeters
	[46-06] Thousand Sq. Centimeters
TK	Tank
	[46-06] Tank
TL	Thousand Feet (Linear)
	[46-06] Thousand Feet (Linear)
TM	Thousand Feet (Board)
	[46-06] Thousand Feet (Board)
TN	Net Ton (2,000 LB).
	[46-06] Net Ton (2,000 LB).
TO	Troy Ounce
	[46-06] Troy Ounce
TP	Ten-pack
	[46-06] Ten-pack
TQ	Thousand Feet
	[46-06] Thousand Feet
TR	Ten Square Feet
	[46-06] Ten Square Feet
TS	Thousand Square Feet
	[46-06] Thousand Square Feet
TT	Thousand Linear Meters
	[46-06] Thousand Linear Meters

TU	Thousand Linear Yards [46-06] Thousand Linear Yards
TV	Thousand Kilograms [46-06] Thousand Kilograms
TW	Thousand Sheets [46-06] Thousand Sheets
TX	Troy Pound [46-06] Troy Pound
TY	Tray [46-06] Tray
TZ	Thousand Cubic Feet [46-06] Thousand Cubic Feet
U1	Treatments [46-06] Treatments
U2	Tablet A compressed or molded block of solid material; a collection of sheet paper glued together at one edge [46-06] Tablet
U3	Ten 10 each of an item of supply [46-06] Ten
U5	Two Hundred Fifty 250 each of an item of supply [46-06] Two Hundred Fifty
UA	Torr Pressure [46-06] Torr
UB	Telecommunications Lines in Service - Average Average number of lines in service specific to equal access requirements [46-06] Telecommunications Lines in Service - Average
UC	Telecommunications Ports Number of network access ports [46-06] Telecommunications Ports
UD	Tenth Minutes Number of 6 second increments of usage [46-06] Tenth Minutes
UE	Tenth Hours Number of 6 minute increments of usage [46-06] Tenth Hours
UF	Usage per Telecommunications Line - Average [46-06] Usage per Telecommunications Line - Average
UH	Ten Thousand Yards [46-06] Ten Thousand Yards
UL	Unitless Unit of Measure for properties or test results without units of measure [46-06] Unitless
UM	Million Units Measure used to indicate large quantities in multiples of one million [46-06] Million Units

UN	Unit [46-06] Unit
UP	Troche A flat, round, tablet made of a medicinal substance [46-06] Troche
UQ	Wafer A light, thin, crisp, cake [46-06] Wafer
UR	Application An action of putting something into material contact [46-06] Application
US	Dosage Form [46-06] Dosage Form
UT	Inhalation [46-06] Inhalation
UU	Lozenge [46-06] Lozenge
UV	Percent Topical Only A measure of medication intended only for external use [46-06] Percent Topical Only
UW	Milliequivalent [46-06] Milliequivalent
UX	Dram (Minim) [46-06] Dram (Minim)
UY	Fifty Square Feet [46-06] Fifty Square Feet
UZ	Fifty Count [46-06] Fifty Count
V1	Flat A shallow rectangular container frequently used for fruits and vegetables [46-06] Flat
V2	Pouch [46-06] Pouch
VA	Volt-ampere per Kilogram [46-06] Volt-ampere per Kilogram
VC	Five Hundred 500 each of an item of supply [46-06] Five Hundred
VI	Vial [46-06] Vial
VP	Percent Volume [46-06] Percent Volume
VR	Volt-ampere-reactive [46-06] Volt-ampere-reactive
VS	Visit A quantitative measure of the number of visits to a provider by the patient [46-06] Visit
W2	Wet Kilo Weight of product plus liquid solution [46-06] Wet Kilo

WA	Watts per Kilogram [46-06] Watts per Kilogram
WB	Wet Pound [46-06] Wet Pound
WD	Work Days [46-06] Work Days
WE	Wet Ton [46-06] Wet Ton
WG	Wine Gallon [46-06] Wine Gallon
WH	Wheel [46-06] Wheel
WI	Weight per Square Inch [46-06] Weight per Square Inch
WK	Week [46-06] Week
WM	Working Months [46-06] Working Months
WP	Pennyweight [46-06] Pennyweight
WR	Wrap [46-06] Wrap
WW	Milliliters of Water [46-06] Milliliters of Water
X1	Chains (Land Survey) [46-06] Chains (Land Survey)
X2	Bunch A measure used to identify a group of like items grown or fastened together [46-06] Bunch
X3	Clove A measure used to identify a section of a separate bulb [46-06] Clove
X4	Drop The smallest quantity of liquid heavy enough to form a spherical mass [46-06] Drop
X5	Head A measure used for a rounded, compact mass of leaves, buds or flowers [46-06] Head
X6	Heart A measure used to identify the central or innermost physical part [46-06] Heart
X7	Leaf A measure used to identify a usually green flattened structure of vascular plants processed for a particular purpose [46-06] Leaf
X8	Loaf A shaped mass of food cooked or prepared in one piece [46-06] Loaf

X9	Portion A measure used to identify a section or quantity within a larger thing [46-06] Portion
XP	Base Box per Pound [46-06] Base Box per Pound
Y1	Slice A measure used to identify a thin broad piece cut from a larger object [46-06] Slice
Y2	Tablespoon A measure equal to three teaspoons or a half fluid ounce [46-06] Tablespoon
Y3	Teaspoon A measure equal to five milliliters or one third tablespoon [46-06] Teaspoon
Y4	Tub A measure used to identify a storage container [46-06] Tub
YD	Yard [46-06] Yard
YL	100 Lineal Yards [46-06] 100 Lineal Yards
YR	Years [46-06] Years
YT	Ten Yards [46-06] Ten Yards
Z1	Lift Van [46-06] Lift Van
Z2	Chest [46-06] Chest
Z3	Cask [46-06] Cask
Z4	Hogshead [46-06] Hogshead
Z5	Lug [46-06] Lug
Z6	Conference Points A participant on a conference call [46-06] Conference Points
Z8	Newspaper Agate Line [46-06] Newspaper Agate Line
ZA	Bimonthly [46-06] Bimonthly
ZB	Biweekly [46-06] Biweekly
ZC	Semiannual [46-06] Semiannual
ZP	Page [46-06] Page
ZZ	Mutually Defined [46-06] Mutually Defined

	LH107	380	Quantity Numeric value of quantity [46-07] HAZMAT - Quantity Quantity refers to the amount (i.e., weight in pounds, volume in cubic feet, or other such measurement) of the hazardous material commodity that is to be transported.	O R 1/15
X	LH108	595	Compartment ID Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
X	LH109	665	Residue Indicator Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
	LH110	254	Packing Group Code Code indicating degree of danger in terms of Roman number I, II or III [46-10] HAZMAT - Packing Group Code Indicate the required 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. SOURCE: The Canadian Gazette, Part II available from Canadian Government Publishing Centre Supply and Services Canada	O ID 1/3
X	LH111	1375	Interim Hazardous Material Regulatory Number	O AN 1/5

Segment: **LH2 Hazardous Classification Information**
Position: 300
Loop: LH1 Optional
Level: Detail
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.
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.
Comments:
Notes: [47] LH2 SEGMENT - HAZMAT Classification
SEGMENT CONDITION: Required for HAZMAT shipments.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	LH201	215	Hazardous Classification	O ID 1/30
			The hazardous classification corresponding to the shipping name of the hazardous commodity [47-01] HAZMAT - Class/Division Identify the hazard class or division prescribed for the material as shown in column 3 of 49 CFR 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 value 'NA'. A material for which the entry in this column is 'Forbidden' may not be offered for transportation nor be transported. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	
>>	LH202	983	Hazardous Class Qualifier	O ID 1/1
			Code qualifying hazardous class [47-02] HAZMAT - Class Qualifier Repeat the LH2 loop as necessary to identify the primary and each subsidiary (secondary) hazard of the material being shipped. P Primary [47-02] Primary S Secondary [47-02] Secondary	
	LH203	218	Hazardous Placard Notation	O ID 14/40
			The placard notation corresponding to the hazard class of the hazardous commodity [47-03] HAZMAT - Description Use this element for clear text description for mandatory HAZMAT reporting such as, English and metric net explosive weights, ammunition round count, or number of hazardous pieces. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	
	LH204	222	Hazardous Endorsement	O ID 4/25
			The placard endorsement that is to be shown on the shipping papers for the hazardous commodity [47-04] HAZMAT - Description Clear text. Include required information such as Proper Shipping Name, DOT explosive Approval Number (EX-number), Competent Authority Approval	

Number, DOT Exemption (DOT-E) Number, Int'l Maritime Dangerous Good Code (IMDG), or whether N.O.S. regulatory requirements apply.
 SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications

	LH205	759	Reportable Quantity Code	O ID 2/2
			Code to identify presence of hazardous substance	
			[47-05] HAZMAT - Reportable Quantity Code	
			For empty packagings or units containing the residue of a hazardous material, reference 49 CFR 172.203(e).	
			ELEMENT CONDITION: Required to indicate a reportable quantity is present in the shipment.	
			RQ Reportable Quantity	
			[47-05] Reportable Quantity	
	LH206	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			[47-06] HAZMAT - Flashpoint Temperature Code	
			ELEMENT CONDITION: Required if LH207 is used.	
			CE Centigrade, Celsius	
			[47-06] Centigrade, Celsius	
			FA Fahrenheit	
			[47-06] Fahrenheit	
	LH207	408	Temperature	X R 1/4
			Temperature	
			[47-07] HAZMAT - Flashpoint Temperature	
X	LH208	355	Unit or Basis for Measurement Code	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LH209	408	Temperature	X R 1/4
X	LH210	355	Unit or Basis for Measurement Code	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LH211	408	Temperature	X R 1/4

Segment: **N1** Name
Position: 380
Loop: N1 Optional
Level: Detail
Usage: Optional
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: [48] N1 SEGMENT - Stop-off Loop
LOOP CONDITION: This loop contains stop-off information and is used for direct booking transactions. The loop may repeat up to nine times to represent up to nine stop-offs. When stop-offs occur: 1. If the consignee changes, a new 304 transaction must be generated. 2. Each stop-off requires a separate N1 stop-off loop.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		[48-01] Stop-off Code	
		45 Drop-off Location	
		[48-01] Drop-off Location Use '45' to denote Stop-off	
	N102	93 Name	X AN 1/60
		Free-form name	
		[48-02] Stop-off Name	
		Name of party responsible for receiving stop-off delivery of shipment. ELEMENT CONDITION: If DoDAAC is not available, this data element is mandatory.	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		[48-03] Stop-off Code Qualifier	
		ELEMENT CONDITION: Required if N104 is used.	
		10 Department of Defense Activity Address Code (DODAAC)	
		[48-03] Department of Defense Activity Address Code (DODAAC)	
	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
		[48-04] Stop-off DoDAAC	
		Code that identifies the activity responsible for receiving stop-off delivery of shipment.	
	N105	706 Entity Relationship Code	O ID 2/2
		Code describing entity relationship	
		[48-05] Stop-off Sequence Code	
		Use '01' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. Use '02' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. Use '03' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. Use '04' to indicate Stop-off Loop Sequence for which This Instance of the N1	

Segment: N2 Additional Name Information
Position: 390
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[49] N2 SEGMENT - Stop-off
 SEGMENT CONDITION: Required if Additional Stop-off Name applies.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name Free-form name	M AN 1/60
X	N202	93	[49-01] Additional Stop-off Name Name	O AN 1/60

Segment: N3 Address Information
Position: 400
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[50] N3 SEGMENT - Stop-off
 SEGMENT CONDITION: Required if Stop-off Street is known.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information [50-01] Stop-off Street	M AN 1/55
	N302	166	Address Information Address information [50-02] Additional Stop-off Street	O AN 1/55

Segment: **N4 Geographic Location**
Position: 410
Loop: N1 Optional
Level: Detail
Usage: Optional
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.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: [51] N4 SEGMENT - Stop-off
SEGMENT CONDITION: Required if Stop-off City, State, and Postal Code is known.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	N401	19 City Name	O AN 2/30
		Free-form text for city name	
		[51-01] Stop-off City	
	N402	156 State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
		[51-02] Stop-off State or Province Code	
		SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	
	N403	116 Postal Code	O ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
		[51-03] Stop-off Postal Code	
		SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	
>>	N404	26 Country Code	O ID 2/3
		Code identifying the country	
		[51-04] Stop-off Country Code	
		Use ISO Codes prime vendor shipments.	
		SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	
X	N405	309 Location Qualifier	X ID 1/2
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	N406	310 Location Identifier	O AN 1/30

Segment: **G61 Contact**
Position: 420
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom communications should be directed
Syntax Notes: 1 If either G6103 or G6104 is present, then the other is required.
Semantic Notes:
Comments: 1 G6103 qualifies G6104.
Notes: [52] G61 SEGMENT - Stop-off
 SEGMENT CONDITION: Required if point of contact information for the shipment stop-off is available.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	G6101	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named [52-01] Contact Function Code IC Information Contact [52-01] Information Contact	M ID 2/2
M	G6102	93	Name Free-form name [52-02] Stop-off Name	M AN 1/60
	G6103	365	Communication Number Qualifier Code identifying the type of communication number [52-03] Stop-off Communication Number Qualifier ELEMENT CONDITION: Required if G6104 is used. TE Telephone [52-03] Telephone	X ID 2/2
	G6104	364	Communication Number Complete communications number including country or area code when applicable [52-04] Stop-off Communication Number	X AN 1/80
X	G6105	443	Contact Inquiry Reference	O AN 1/20

Segment: **L3 Total Weight and Charges**
Position: 010
Loop: L3 Optional (Must Use)
Level: Summary
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

- Syntax Notes:**
- 1 If either L301 or L302 is present, then the other is required.
 - 2 If either L303 or L304 is present, then the other is required.
 - 3 If either L309 or L310 is present, then the other is required.
 - 4 If L312 is present, then L301 is required.
 - 5 If either L314 or L315 is present, then the other is required.

Semantic Notes: 1 L305 is the total charges.

Comments:

Notes: [53] L3 SEGMENT - Total Measurements

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
>>	L301	81	Weight	X R 1/10
			Numeric value of weight	
			[53-01] Total Actual Weight of Shipment	
			Totals of certified weights for all commodities on bill of lading (combined actual net weight: contents, goods and dunnage); does not include chassis and container.	
>>	L302	187	Weight Qualifier	X ID 1/2
			Code defining the type of weight	
			[53-02] Weight Qualifier	
		G	Gross Weight	
			[53-02] Gross Weight	
			Use 'G' to denote Weight for All Goods in Shipment	
X	L303	60	Freight Rate	X R 1/9
X	L304	122	Rate/Value Qualifier	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	L305	58	Charge	O N2 1/12
X	L306	191	Advances	O N2 1/9
X	L307	117	Prepaid Amount	O N2 1/9
X	L308	150	Special Charge or Allowance Code	O ID 3/3
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	L309	183	Volume	X R 1/8
			Value of volumetric measure	
			[53-09] Volume	
			ELEMENT CONDITION: Required for direct booking transactions.	
	L310	184	Volume Unit Qualifier	X ID 1/1
			Code identifying the volume unit	
			[53-10] Volume Unit Qualifier	
			ELEMENT CONDITION: Required if L309 is used.	
		E	Cubic Feet	
			[53-10] Cubic Feet	
		X	Cubic Meters	
			[53-10] Cubic Meters	
	L311	80	Lading Quantity	O N0 1/7
			Number of units (pieces) of the lading commodity	
			[53-11] Lading Quantity	

			Total of all pieces for bill of lading (total of all QTY02 values).	
	L312	188	Weight Unit Code	O ID 1/1
			Code specifying the weight unit	
			[53-12] Weight Unit Code	
			ELEMENT CONDITION: Required if L301 is used.	
			K	Kilograms
				[53-12] Kilograms
			L	Pounds
				[53-12] Pounds
X	L313	171	Tariff Number	O AN 1/7
X	L314	74	Declared Value	X N2 2/12
X	L315	122	Rate/Value Qualifier	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **SE** Transaction Set Trailer
Position: 080
Loop:
Level: Summary
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: [54] SE SEGMENT - Ocean Carrier Shipping Instructions Trailer

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
			[54-01] Number of Included Segments	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			[54-02] 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 ocean carrier shipping instructions into the ASC X12 Transaction Set 304 Shipping Instructions. These requirements were developed by transportation activities involved in the DoD electronic data interchange effort.

This IC includes all changes approved by the DTEB Committee and described in DTEB 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 - Ocean Carrier Shipping Instructions Header	M	1	010	M	1							
1-01		Transaction Set Identifier Code 304 - Shipping Instructions	M ID 3/3	1	010	M	1				ST01	143	M	ID 3/3
1-02		Transaction Set Control Number 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	010	M	1				ST02	329	M	AN 4/9
2		B2 SEGMENT - Shipment Identification Number	M	1	020	M	1							
2-01		Tariff Service Code ELEMENT CONDITION: Required for prime vendor shipments. DD - Door-to-Door	C ID 2/2	1	020	M	1				B201	375	O	ID 2/2
2-02		Standard Carrier Alpha Code SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	M ID 2/4	1	020	M	1				B202	140	O	ID 2/4
2-04		Shipper Reference Number For purposes of SDDC's Integrated Booking System, this is a port call file number. ELEMENT CONDITION: Port Call File No. will not exist if the shipper books directly with a carrier. In those situations, do not use this data element; the carriers will key on booking number and container number.	C AN 6/7	1	020	M	1				B204	145	O	AN 1/30
2-06		Shipment Method of Payment PP - Prepaid (by Seller)	M ID 2/2	1	020	M	1				B206	146	M	ID 2/2
3		B2A SEGMENT - Transaction Set Purpose	M	1	030	O	1							
3-01		Transaction Set Purpose Code 00 - Original 01 - Cancellation 05 - Replace	M ID 2/2	1	030	O	1				B2A01	353	M	ID 2/2

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			
3-02		Application Type BL - Bill of Lading <i>Use 'BL' to denote Bill of Lading for Prime Vendor Shipments.</i> ZZ - Mutually Defined <i>Use 'ZZ' to denote Direct Booking Transaction.</i>	C	ID	2/2	1	030	O	1			B2A02	346	O	ID	2/2	
4		N9 SEGMENT - Booking Number Information SEGMENT CONDITION: Required if Booking Number is available.	C			1	080	O	100								See X12 Standards for explanation of syntax notes. R0203C0605
4-01		Booking Number Qualifier BN - Booking Number	M	ID	2/2	1	080	O	100			N901	128	M	ID	2/3	
4-02		Booking Number Use booking number.	M	AN	1/30	1	080	O	100			N902	127	C	AN	1/30	
5		N9 SEGMENT - Container TCN This segment stores the TCN for the container.	M			1	080	O	100								See X12 Standards for explanation of syntax notes. R0203C0605
5-01		Container TCN Qualifier SI - Shipper's Identifying Number for Shipment (SID)	M	ID	2/2	1	080	O	100			N901	128	M	ID	2/3	
5-02		Container TCN	M	AN	17/17	1	080	O	100			N902	127	C	AN	1/30	
6		N9 SEGMENT - Transportation Tracking Number (TTN) SEGMENT CONDITION: Required for unit move cargo when Transportation Tracking Number is applicable.	C			1	080	O	100								See X12 Standards for explanation of syntax notes. R0203C0605
6-01		Transportation Tracking Number (TTN) Qualifier 18 - Plan Number <i>Use '18' to denote Transportation Tracking Number (TTN).</i>	M	Identifier	2/2	1	080	O	100			N901	128	M	ID	2/3	
6-02		Transportation Tracking Number (TTN)	M	AN	17/17	1	080	O	100			N902	127	C	AN	1/30	
7		V1 SEGMENT - Vessel SEGMENT CONDITION: Required if Vessel Information from booking is available.	C			1	090	O	2								See X12 Standards for explanation of syntax notes. R0102C0801

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			
7-01		Vessel Code Lloyd's Code/Radio Call Sign. ELEMENT CONDITION: Required for prime vendor shipments. Not required for direct booking. SOURCE: Lloyd's Register of Shipping	C	ID	1/8	1	090	O	2			V101	597	C	ID	1/8	
7-02		Vessel Name SOURCE: Lloyd's Register of Shipping	C	AN	2/28	1	090	O	2			V102	182	C	AN	2/28	
7-04		Commercial Voyage Number	C	AN	2/10	1	090	O	2			V104	55	O	AN	2/10	
7-08		Vessel Code Qualifier ELEMENT CONDITION: Required for prime vendor shipments. C - Ship's Radio Call Signal L - Lloyd's Register of Shipping	C	ID	1/1	1	090	O	2			V108	897	O	ID	1/1	
8		DTM SEGMENT - Required Date of Delivery	M			1	156	O	20								
																See X12 Standards for explanation of syntax notes. R020305C0403P0506	
8-01		Date/Time Qualifier 106 - Required By	M	ID	3/3	1	156	O	20			DTM01	374	M	ID	3/3	
8-02		Date	M	DT	8/8	1	156	O	20			DTM02	373	C	DT	8/8	
9		N1 SEGMENT - Destination This loop calls for N1, N2, N3, and N4 segments. For DoD shippers use the TAC2 freight address.	M			1	160	O	1	100	1	N1					
																See X12 Standards for explanation of syntax notes. R0203P0304	
9-01		Destination Identifier Code ST - Ship To	M	ID	2/2	1	160	O	1	100	1	N1	N101	98	M	ID	2/3
9-02		Destination Name Name of party responsible for receiving delivery of shipment. ELEMENT CONDITION: If DoDAAC is not available, this data element is mandatory.	C	AN	1/60	1	160	O	1	100	1	N1	N102	93	C	AN	1/60
9-03		Destination Code Qualifier ELEMENT CONDITION: Required if N104 is used. 10 - Department of Defense Activity Address Code (DODAAC)	C	ID	2/2	1	160	O	1	100	1	N1	N103	66	C	ID	1/2

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	
9-04		Destination DoDAAC Code that identifies the activity responsible for receiving delivery of shipment. ELEMENT CONDITION: Required for prime vendor shipments.	C	AN	6/6	1	160	O	1	100	1	N1	N104	67	C AN 2/80
10		N2 SEGMENT - Destination SEGMENT CONDITION: Required if Additional Destination Name applies.	C			1	170	O	2	100	1	N1			
10-01		Additional Destination Name	M	AN	1/60	1	170	O	2	100	1	N1	N201	93	M AN 1/60
11		N3 SEGMENT - Destination	C			1	180	O	2	100	1	N1			
11-01		Destination Street	M	AN	1/55	1	180	O	2	100	1	N1	N301	166	M AN 1/55
11-02		Additional Destination Street	C	AN	1/55	1	180	O	2	100	1	N1	N302	166	O AN 1/55
12		N4 SEGMENT - Destination SEGMENT CONDITION: Required if Destination City, State, and Postal Code is known.	C			1	190	O	1	100	1	N1			
12-01		Destination City	M	AN	2/30	1	190	O	1	100	1	N1	N401	19	O AN 2/30
12-02		Destination State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	190	O	1	100	1	N1	N402	156	O ID 2/2
12-03		Destination Postal Code SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C	ID	3/15	1	190	O	1	100	1	N1	N403	116	O ID 3/15
12-04		Destination Country Code Use ISO Codes for prime vendor shipments. For direct booking use MILSTAMP country codes. SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	M	ID	2/3	1	190	O	1	100	1	N1	N404	26	O ID 2/3
13		G61 SEGMENT - Destination SEGMENT CONDITION: Required if point of contact information for the shipment destination applies.	C			1	195	O	3	100	1	N1			

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	
13-01		Contact Function Code IC - Information Contact	M	ID	2/2	1	195	O	3	100	1	N1	G6101	366	M ID 2/2
13-02		Destination Name	M	AN	1/60	1	195	O	3	100	1	N1	G6102	93	M AN 1/60
13-03		Destination Communication Number Qualifier ELEMENT CONDITION: Required if G6104 is used. TE - Telephone	C	ID	2/2	1	195	O	3	100	1	N1	G6103	365	C ID 2/2
13-04		Destination Communication Number	C	AN	1/80	1	195	O	3	100	1	N1	G6104	364	C AN 1/80
14		N1 SEGMENT - Origin This loop calls for N1, N2, N3, and N4 segments.	M			1	160	O	1	100	1	N1			See X12 Standards for explanation of syntax notes. R0203P0304
14-01		Origin Identifier Code SF - Ship From	M	ID	2/2	1	160	O	1	100	1	N1	N101	98	M ID 2/3
14-02		Origin Name	C	AN	1/60	1	160	O	1	100	1	N1	N102	93	C AN 1/60
14-03		Origin Code Qualifier ELEMENT CONDITION: Required for prime vendor shipments. 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) ZZ - Mutually Defined	C	ID	1/1	1	160	O	1	100	1	N1	N103	66	C ID 1/2
14-04		Origin DoDAAC/CAGE Identification code of the responsible activity at the pickup location. Required for all DLA prime vendor shipments.	M	AN	2/80	1	160	O	1	100	1	N1	N104	67	C AN 2/80
15		N2 SEGMENT - Origin SEGMENT CONDITION: Required if Origin information is known.	C			1	170	O	2	100	1	N1			
15-01		Origin Additional Name	M	AN	1/60	1	170	O	2	100	1	N1	N201	93	M AN 1/60
16		N3 SEGMENT - Origin SEGMENT CONDITION: Required if Origin Street Information is known.	C			1	180	O	2	100	1	N1			

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

OCEAN CARRIER SHIPPING INSTRUCTIONS
304.A.004010

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			
16-01		Origin Street	M	AN	1/55	1	180	O	2	100	1	N1	N301	166	M	AN	1/55
16-02		Origin Additional Street	C	AN	1/55	1	180	O	2	100	1	N1	N302	166	O	AN	1/55
17		N4 SEGMENT - Origin SEGMENT CONDITION: Required if Origin City, State, and Postal Code is known	C			1	190	O	1	100	1	N1	See X12 Standards for explanation of syntax notes. C0605				
17-01		Origin City	M	AN	2/30	1	190	O	1	100	1	N1	N401	19	O	AN	2/30
17-02		Origin State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	M	ID	2/2	1	190	O	1	100	1	N1	N402	156	O	ID	2/2
17-03		Origin Postal Code SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	M	ID	3/15	1	190	O	1	100	1	N1	N403	116	O	ID	3/15
17-04		Origin Country Code Use ISO Codes for prime vendor shipments. SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	M	ID	2/3	1	190	O	1	100	1	N1	N404	26	O	ID	2/3
18		N1 SEGMENT - Shipper LOOP CONDITION: Required if Shipper information is known. This loop calls for N1, N2, N3, and N4 loops.	C			1	160	O	1	100	1	N1	See X12 Standards for explanation of syntax notes. R0203P0304				
18-01		Shipper Identifier Code SH - Shipper	M	ID	2/2	1	160	O	1	100	1	N1	N101	98	M	ID	2/3
18-02		Shipper Name	C	AN	1/60	1	160	O	1	100	1	N1	N102	93	C	AN	1/60

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

OCEAN CARRIER SHIPPING INSTRUCTIONS
304.A.004010

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			
18-03		Shipper Code Qualifier ELEMENT CONDITION: Required for prime vendor shipments. 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) ZZ - Mutually Defined	C	ID	1/2	1	160	O	1	100	1	N1	N103	66	C	ID	1/2
18-04		Shipper Code	C	AN	2/80	1	160	O	1	100	1	N1	N104	67	C	AN	2/80
19		N2 SEGMENT - Shipper SEGMENT CONDITION: Required if additional Shipper Name applies.	C			1	170	O	2	100	1	N1					
19-01		Shipper Additional Name	M	AN	1/60	1	170	O	2	100	1	N1	N201	93	M	AN	1/60
20		N3 SEGMENT - Shipper SEGMENT CONDITION: Required if Shipper Street Address is known.	C			1	180	O	2	100	1	N1					
20-01		Shipper Street	M	AN	1/55	1	180	O	2	100	1	N1	N301	166	M	AN	1/55
20-02		Shipper Additional Street	C	AN	1/55	1	180	O	2	100	1	N1	N302	166	O	AN	1/55
21		N4 SEGMENT - Shipper SEGMENT CONDITION: Required if Shipper City, State, and Postal Code is known.	C			1	190	O	1	100	1	N1					
21-01		Shipper City	M	AN	2/30	1	190	O	1	100	1	N1	N401	19	O	AN	2/30
21-02		Shipper State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	M	ID	2/2	1	190	O	1	100	1	N1	N402	156	O	ID	2/2
21-03		Shipper Postal Code SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	M	ID	3/15	1	190	O	1	100	1	N1	N403	116	O	ID	3/15

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

OCEAN CARRIER SHIPPING INSTRUCTIONS
304.A.004010

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	
21-04		Shipper Country Code Use ISO Codes for prime vendor shipments. SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	M ID 2/3	1	190	O	1	100	1	N1	N404	26	O ID	2/3
22		N1 SEGMENT - Consignee LOOP CONDITION: Required if Consignee information is available. This loop calls for N1, N2, N3, and N4 segments.	C	1	160	O	1	100	1	N1	See X12 Standards for explanation of syntax notes. R0203P0304			
22-01		Consignee Identifier Code CN - Consignee	M ID 2/2	1	160	O	1	100	1	N1	N101	98	M ID	2/3
22-02		Consignee Name	C AN 1/60	1	160	O	1	100	1	N1	N102	93	C AN	1/60
22-03		Consignee Code Qualifier Required for prime vendor shipments. 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) ZZ - Mutually Defined	M ID 1/2	1	160	O	1	100	1	N1	N103	66	C ID	1/2
22-04		Consignee Code	M AN 2/80	1	160	O	1	100	1	N1	N104	67	C AN	2/80
23		N2 SEGMENT - Consignee SEGMENT CONDITION: Required if Additional Consignee name applies.	C	1	170	O	2	100	1	N1				
23-01		Additional Consignee Name	M AN 1/60	1	170	O	2	100	1	N1	N201	93	M AN	1/60
24		N3 SEGMENT - Consignee SEGMENT CONDITION: Required if Consignee street address is known.	C	1	180	O	2	100	1	N1				
24-01		Consignee Street	M AN 1/55	1	180	O	2	100	1	N1	N301	166	M AN	1/55
24-02		Consignee Additional Street	C AN 1/55	1	180	O	2	100	1	N1	N302	166	O AN	1/55
25		N4 SEGMENT - Consignee	C	1	190	O	1	100	1	N1	See X12 Standards for explanation of syntax notes. C0605			

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		
25-01		Consignee City	M	AN	2/30	1	190	O	1	100	1	N1	N401	19	O AN	2/30
25-02		Consignee State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	190	O	1	100	1	N1	N402	156	O ID	2/2
25-03		Consignee Postal Code SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C	ID	3/15	1	190	O	1	100	1	N1	N403	116	O ID	3/15
25-04		Consignee Country Code Use ISO Codes for prime vendor shipments. SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	M	ID	2/3	1	190	O	1	100	1	N1	N404	26	O ID	2/3
26		N1 SEGMENT - Payer Entity This loop calls for a single N1 segment. It identifies the entity who is responsible for remitting payment to the carriers.	M			1	160	O	1	100	1	N1				See X12 Standards for explanation of syntax notes. R0203P0304
26-01		Payer Identifier Code BT - Bill-to-Party	M	ID	2/2	1	160	O	1	100	1	N1	N101	98	M ID	2/3
26-02		Payer Name Use 'USBank/PowerTrack' in this data element.	C	AN	1/60	1	160	O	1	100	1	N1	N102	93	C AN	1/60
26-03		Payer Account Number Qualifier 1 - D-U-N-S Number, Dun & Bradstreet PI - Payor Identification	M	ID	1/2	1	160	O	1	100	1	N1	N103	66	C ID	1/2
26-04		Payer Account Number Use USBank's D-U-N-S Number.	M	AN	2/80	1	160	O	1	100	1	N1	N104	67	C AN	2/80
27		R4 SEGMENT - Port of Embarkation (POE) LOOP CONDITION: Required if direct booking transaction.	C			1	200	O	1	20	1	R4				See X12 Standards for explanation of syntax notes. P0203
27-01		POE Qualifier L - Port of Loading (Operational)	M	ID	1/1	1	200	O	1	20	1	R4	R401	115	M ID	1/1

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

OCEAN CARRIER SHIPPING INSTRUCTIONS
304.A.004010

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		
27-02		POE Location Qualifier SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC) D - Census Schedule D IM - Military Standard Movement Procedures (MILSTAMP) K - Census Schedule K	C	ID	1/1	1	200	O	1	20	1	R4	R402	309	C ID	1/2
27-03		POE Location Identifier	C	AN	1/30	1	200	O	1	20	1	R4	R403	310	C AN	1/30
27-04		POE Name ELEMENT CONDITION: Element required if a direct booking transaction.	C	AN	2/24	1	200	O	1	20	1	R4	R404	114	O AN	2/24
27-05		POE Country Code Use ISO Codes for prime vendor shipments. SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	C	ID	2/3	1	200	O	1	20	1	R4	R405	26	O ID	2/3
27-08		POE State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	200	O	1	20	1	R4	R408	156	O ID	2/2
28		R4 SEGMENT - Port of Debarkation (POD) LOOP CONDITION: Required if a direct booking transaction.	C			1	200	O	1	20	1	R4				See X12 Standards for explanation of syntax notes. P0203
28-01		POD Qualifier D - Port of Discharge (Operational)	M	ID	1/1	1	200	O	1	20	1	R4	R401	115	M ID	1/1
28-02		POD Location Qualifier ELEMENT CONDITION: Required if R403 is used. SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC) D - Census Schedule D IM - Military Standard Movement Procedures (MILSTAMP) K - Census Schedule K	C	ID	1/1	1	200	O	1	20	1	R4	R402	309	C ID	1/2
28-03		POD Location Identifier	C	AN	1/30	1	200	O	1	20	1	R4	R403	310	C AN	1/30

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	
28-04		POD Name ELEMENT CONDITION: Element required if a direct booking transaction.	C AN 2/24	1	200	O	1	20	1	R4	R404	114	O AN	2/24
28-05		POD Country Code Use ISO Codes for prime vendor shipments. SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	C ID 2/3	1	200	O	1	20	1	R4	R405	26	O ID	2/3
28-06		POD Terminal Name	C AN 2/30	1	200	O	1	20	1	R4	R406	174	O AN	2/30
28-07		POD Pier Number	C AN 1/4	1	200	O	1	20	1	R4	R407	113	O AN	1/4
28-08		POD State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C ID 2/2	1	200	O	1	20	1	R4	R408	156	O ID	2/2
29		C8 SEGMENT - Certification/Clause Code LOOP CONDITION: Required if Certification/Clause Code applies.	C	1	290	O	1	20	1	C8	See X12 Standards for explanation of syntax notes. R0302			
29-02		Certification/Clause Code 01 - Shipper's Load and Count CC - Custom <i>Use 'CC' to denote Contents Shipped Loose to the Carrier and Stuffed by the Carrier.</i>	M ID 2/2	1	290	O	1	20	1	C8	C802	246	C ID	2/4
30		LX SEGMENT - Container Level Information Loop Use additional LX loops when number of line items exceed one hundred (100). Use only one transaction per container. However, if the number of line item TCNs in a container exceeds the 100 maximum allowable occurrences per LX loop, then shippers may repeat the LX loop with the same container data, then follow with the additional line item loops.	M	2	010	O	1	999	1	LX				
30-01		Assigned Number Increment by one for each additional loop. Sample Values: 1	M N0 1/6	2	010	O	1	999	1	LX	LX01	554	M N0	1/6
31		N7 SEGMENT - Container Use only one N7 segment for each container (LX loop). Use only one N7 segment for each container (LX loop).	M	2	030	O	1	999	2	N7	See X12 Standards for explanation of syntax notes. P0304P0516P0809			

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	
31-01		Container Initial SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association	M	AN	1/4	2	030	O	1	999	2	N7	N701	206	O AN 1/4
31-02		Container Number This is the number that appears on the side of the container. It may include check digits.	M	AN	7/7	2	030	O	1	999	2	N7	N702	207	M AN 1/10
31-03		Weight Cargo + Dunnage (does not include weight of container or chassis).	M	R	1/10	2	030	O	1	999	2	N7	N703	81	C R 1/10
31-04		Weight Qualifier CE - Certified Weight of Cargo	M	ID	2/2	2	030	O	1	999	2	N7	N704	187	C ID 1/2
31-08		Volume Volume of cargo plus dunnage.	M	R	1/8	2	030	O	1	999	2	N7	N708	183	C R 1/8
31-09		Volume Unit Qualifier E - Cubic Feet	M	ID	1/1	2	030	O	1	999	2	N7	N709	184	C ID 1/1
31-11		Equipment Description Code ELEMENT CONDITION: Required only for direct booking. CJ - Container, Insulated/Ventilated CN - Container CZ - Refrigerated Container LS - Half Height Flat Rack <i>Use 'LS' to denote Flat-rack.</i>	C	ID	2/2	2	030	O	1	999	2	N7	N711	40	O ID 2/2
31-15		Equipment Length ELEMENT CONDITION: Required for a direct booking transaction.	C	N0	5/5	2	030	O	1	999	2	N7	N715	567	O N0 4/5
31-17		Weight Unit Qualifier Indicates certified weight of cargo in pounds or kilograms. K - Kilograms L - Pounds	M	ID	1/1	2	030	O	1	999	2	N7	N717	188	O ID 1/1

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			
31-22		Equipment Type SOURCE: Identification Marking Code for Freight Containers (ISO 6346-1995) available from American National Standards Institute	C	ID	4/4	2	030	O	1	999	2	N7	N722	24	O	ID	4/4
32		QTY SEGMENT - Shipped Quantity	M			2	035	O	1	999	2	N7	See X12 Standards for explanation of syntax notes. R0204E0204				
32-01		Shipped Quantity Qualifier 39 - Shipped Quantity	M	ID	2/2	2	035	O	1	999	2	N7	QTY01	673	M	ID	2/2
32-02		Shipped Quantity	M	R	1/15	2	035	O	1	999	2	N7	QTY02	380	C	R	1/15
32-03		Composite Unit of Measure	M	CE		2	035	O	1	999	2	N7	QTY03	C001	O	CE	
32-03-01		Unit or Basis for Measurement Code By placing an applicable code value (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. BX - Box CA - Case PL - Pallet/Unit Load	M	ID	2/2	2	035	O	1	999	2	N7	C00101	355	M	ID	2/2
33		M7 SEGMENT - Seal Number SEGMENT CONDITION: Required if Seal Number applies.	C			2	050	O	5	999	2	N7					
33-01		Seal Number	M	AN	2/15	2	050	O	5	999	2	N7	M701	225	M	AN	2/15
33-05		Shipper Identifier Code SH - Shipper	M	ID	2/2	2	050	O	5	999	2	N7	M705	98	O	ID	2/3
34		W09 SEGMENT - Reefer Information SEGMENT CONDITION: Required if Reefer is used in shipment.	C			2	060	O	1	999	2	N7	See X12 Standards for explanation of syntax notes. P0203P0405				
34-01		Reefer Description Code CJ - Container, Insulated/Ventilated CZ - Refrigerated Container	M	ID	2/2	2	060	O	1	999	2	N7	W0901	40	M	ID	2/2
34-02		Minimum Temperature	M	R	1/4	2	060	O	1	999	2	N7	W0902	408	C	R	1/4

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		
34-03		Unit or Basis for Measurement Code CE - Centigrade, Celsius FA - Fahrenheit	M	I	2/2	2	060	O	1	999	2	N7	W0903	355	C ID	2/2
34-04		Maximum Temperature	M	R	1/4	2	060	O	1	999	2	N7	W0904	408	C R	1/4
34-05		Unit or Basis for Measurement Code CE - Centigrade, Celsius FA - Fahrenheit	M	ID	2/2	2	060	O	1	999	2	N7	W0905	355	C ID	2/2
34-07		Vent Setting Code A - Vent 25% Open B - Vent 50% Open C - Vent 75% Open D - Vent 100% Open E - Closed Z - Carrier to Set Based on Commodity Type	C	ID	1/1	2	060	O	1	999	2	N7	W0907	1122	O ID	1/1
34-08		Percent of Humidity Required Percent humidity - refrigerated.	C	N0	1/3	2	060	O	1	999	2	N7	W0908	488	O N0	1/3
34-09		Quantity	C	R	1/15	2	060	O	1	999	2	N7	W0909	380	O R	1/15
35		L0 SEGMENT - Line Item Level (within container) This loop calls for an L0, L4, L5, and N9 segment. It contains unit of sale multiplied by the order quantity from the vendor's purchase order. This loop occurs at least once for every line item on the vendor's purchase order.	M			2	170	O	1	120	2	L0				See X12 Standards for explanation of syntax notes. P0203P0405P0607P0809C1104P1315
35-01		Lading Line Item Number ELEMENT CONDITION: Required for Prime Vendor shipments.	C	N0	1/3	2	170	O	1	120	2	L0	L001	213	O N0	1/3
35-04		Weight Weight of the item only; should be equal to or less than the weight of the container. Use L004 and L005 when the shipment is based on pounds.	C	R	1/10	2	170	O	1	120	2	L0	L004	81	C R	1/10

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

OCEAN CARRIER SHIPPING INSTRUCTIONS
304.A.004010

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			
35-05		Weight Qualifier Use L004 and L005 when the shipment is based on pounds. ELEMENT CONDITION: Required if L004 is used. N - Actual Net Weight	C	ID	1/1	2	170	O	1	120	2	L0	L005	187	C	ID	1/2
35-06		Volume	C	R	1/8	2	170	O	1	120	2	L0	L006	183	C	R	1/8
35-07		Volume Unit Qualifier ELEMENT CONDITION: Required if L006 is used. E - Cubic Feet S - Measurement Ton <i>Use 'S' to denote Direct Booking.</i> X - Cubic Meters	C	ID	1/1	2	170	O	1	120	2	L0	L007	184	C	ID	1/1
35-08		Content Pieces Quantity Number of pieces in an individual shipping unit.	C	N0	1/7	2	170	O	1	120	2	L0	L008	80	C	N0	1/7
35-09		Packaging Form Code See Section 6 for list of data values.	C	ID	3/3	2	170	O	1	120	2	L0	L009	211	C	ID	3/3
35-11		Weight Unit Code Use code value 'E' only for a direct booking transaction. ELEMENT CONDITION: Required if L004 is used. E - Metric Ton K - Kilograms L - Pounds	C	ID	1/1	2	170	O	1	120	2	L0	L011	188	O	ID	1/1
36		PO4 SEGMENT - HAZMAT LOOP CONDITION: Required for HAZMAT shipment to satisfy X12 syntax.	C			2	172	O	1	100	3	PO4	See X12 Standards for explanation of syntax notes. P0203C0506P0607P0809C1013C1113C1213L13101112C1716C1804				
36-01		Mandatory Element Sample Values: 0	M	N0	1/1	2	172	O	1	100	3	PO4	PO401	356	O	N0	1/6
37		MEA SEGMENT - Net Explosive Weight (English) SEGMENT CONDITION: Must include this segment for ammunition shipment. Both English and Metric units are required to comply with 49 CFR 171.10.	C			2	173	O	5	100	3	PO4	See X12 Standards for explanation of syntax notes. R03050608C0504C0604L07030506E0803				

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			
37-01		Net Explosive Weight Qualifier NX - Net Explosive Weight	M	ID	2/2	2	173	O	5	100	3	PO4	MEA01	737	O	ID	2/2
37-03		Net Explosive Weight If net explosive weight is available for an individual line item, carry that weight in this data element. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	M	R	1/8	2	173	O	5	100	3	PO4	MEA03	739	C	R	1/20
37-04		Composite Unit of Measurement Code C00101 calls for an identifier from the DE 355 code list. The element separator is not used in this template. Its elements are concatenated together without using a delimiter.	M	CE		2	173	O	5	100	3	PO4	MEA04	C001	C	CE	
37-04-01		Net Explosive Weight Qualifier (English) Both metric and English units are required to comply with 49 CFR 171.10. If explosive is dry, use code value 'PN'; if wet, use code value 'GA'. By placing these code values (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. GA - Gallon PN - Pounds Net	M	ID	2/2	2	173	C	5	100	3	PO4	C00101	355	M	ID	2/2
38		MEA SEGMENT - Net Explosive Weight (Metric) SEGMENT CONDITION: Must include this segment for ammunition shipment. Both English and Metric units are required to comply with 49 CFR 171.10.	C			2	173	O	5	100	3	PO4					See X12 Standards for explanation of syntax notes. R03050608C0504C0604L07030506E0803
38-01		Net Explosive Weight Qualifier NX - Net Explosive Weight	M	ID	2/2	2	173	O	5	100	3	PO4	MEA01	737	O	ID	2/2
38-03		Net Explosive Weight Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	M	R	1/8	2	173	O	5	100	3	PO4	MEA03	739	C	R	1/20
38-04		Composite Unit of Measurement Code C00101 calls for an identifier from the DE 355 code list. The element separator is not used in this template. Its elements are concatenated together without using a delimiter.	M	CE		2	173	O	5	100	3	PO4	MEA04	C001	C	CE	
38-04-01		Net Explosive Weight Qualifier (Metric) If explosive is dry, use code value 'KG'; if wet, use code value 'LT'. By placing these code values (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. KG - Kilogram LT - Liter	M	ID	2/2	2	173	C	5	100	3	PO4	C00101	355	M	ID	2/2

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	
39		MEA SEGMENT - Round Count SEGMENT CONDITION: Must include this segment for ammunition shipment to comply with 49 CFR 171.10. Include this segment for ammunition shipment to comply with 49 CFR 171.10.	C		2	173	O	5	100	3	PO4				
39-01		Round Count Qualifier CT - Counts	M	ID 2/2	2	173	O	5	100	3	PO4	MEA01	737	O	ID 2/2
39-03		Round Count	M	R 1/8	2	173	O	5	100	3	PO4	MEA03	739	C	R 1/20
39-04		Composite Unit of Measurement Code C00101 calls for an identifier from the DE 355 code list. The element separator is not used in this template. Its elements are concatenated together without using a delimiter.	M	CE	2	173	O	5	100	3	PO4	MEA04	C001	C	CE
39-04-01		Round Count Qualifier By placing code value 'RO' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. RO - Round	M	ID 2/2	2	173	C	5	100	3	PO4	C00101	355	M	ID 2/2
40		L4 SEGMENT - Shipping Dimensions for Oversized Cargo SEGMENT CONDITION: Required if oversized (usually flat rack or open top) cargo applies. Not needed if shipping a standard 40-foot container.	C		2	177	O	1	120	2	L0				
40-01		Length	M	R 1/8	2	177	O	1	120	2	L0	L401	82	M	R 1/8
40-02		Width	M	R 1/8	2	177	O	1	120	2	L0	L402	189	M	R 1/8
40-03		Height	M	R 1/8	2	177	O	1	120	2	L0	L403	65	M	R 1/8
40-04		Measurement Unit Qualifier N - Inches	M	ID 1/1	2	177	O	1	120	2	L0	L404	90	M	ID 1/1
40-05		Quantity	C	R 1/15	2	177	O	1	120	2	L0	L405	380	O	R 1/15
41		L5 SEGMENT - Description of Articles SEGMENT CONDITION: Required if Description of Articles applies.	C		2	185	O	999	120	2	L0				
41-01		Lading Line Item Number	C	N0 1/3	2	185	O	999	120	2	L0	L501	213	O	N0 1/3

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		
41-02		Lading Description Clear text description of the unit of sale being shipped.	M	AN	1/50	2	185	O	999	120	2	L0	L502	79	O AN	1/50
41-03		Commodity Code	M	AN	1/30	2	185	O	999	120	2	L0	L503	22	C AN	1/30
41-04		Commodity Code Qualifier F - National Stock Number I - Milstamp AITC or Water Commodity Code Z - Mutually defined <i>Use 'Z' to denote Commodity Code.</i>	M	ID	1/1	2	185	O	999	120	2	L0	L504	23	C ID	1/1
41-06		Marks and Numbers	C	AN	1/48	2	185	O	999	120	2	L0	L506	87	C AN	1/48
42		L12 SEGMENT - Additional Remarks SEGMENT CONDITION: Two occurrences of this segment are allowed. Not used for prime vendor shipments.	C			2	190	O	20	120	2	L0				
42-02		Additional Remarks Free-form text for additional line item remarks or handling instructions.	M	AN	1/80	2	190	O	20	120	2	L0	L1202	352	O AN	1/80
43		N9 SEGMENT - Vendor Contract Number SEGMENT CONDITION: Required if Vendor Contract Number applies.	C			2	195	O	100	120	2	L0				
																See X12 Standards for explanation of syntax notes. R0203C0605
43-01		Vendor Contract Number Qualifier VC - Vendor Contract Number	M	ID	2/2	2	195	O	100	120	2	L0	N901	128	M ID	2/3
43-02		Vendor Contract Number	M	AN	1/30	2	195	O	100	120	2	L0	N902	127	C AN	1/30
44		N9 SEGMENT - Line Item TCN SEGMENT CONDITION: Required if Line Item TCN applies.	C			2	195	O	100	120	2	L0				
																See X12 Standards for explanation of syntax notes. R0203C0605
44-01		Line Item TCN Qualifier TG - Transportation Control Number (TCN)	M	ID	2/3	2	195	O	100	120	2	L0	N901	128	M ID	2/3
44-02		Line Item TCN	M	AN	17/17	2	195	O	100	120	2	L0	N902	127	C AN	1/30

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		
45		N9 SEGMENT - Transportation Tracking Number (TTN) SEGMENT CONDITION: Required for unit move cargo when Transportation Tracking Number is applicable.	C	2	195	O	100	120	2	L0					
				See X12 Standards for explanation of syntax notes. R0203C0605											
45-01		Transportation Tracking Number (TTN) Qualifier 18 - Plan Number <i>Use '18' to denote Transportation Tracking Number (TTN).</i>	M Identifier 2/2	2	195	O	100	120	2	L0	N901	128	M	ID 2/3	
45-02		Transportation Tracking Number (TTN)	M AN 17/17	2	195	O	100	120	2	L0	N902	127	C	AN 1/30	
46		LH1 SEGMENT - HAZMAT LOOP CONDITION: This segment begins the HAZMAT loop, which is included only if the shipment contains hazardous material. The loop may occur only once per line item.	C	2	290	O	1	1	3	LH1					
46-01		HAZMAT - Unit of Measure Code Contains the code identifying the unit of measure (type of packaging) for which the data in LH102 is reported. Select the appropriate code value from X12 Standard DE 355 for the type of package that contains the items being shipped. See Section 6 for list of data values.	M ID 2/2	2	290	O	1	1	3	LH1	LH101	355	M	ID 2/2	
46-02		HAZMAT - Lading Quantity Contains the number of units (pieces) of the lading commodity that is hazardous. Reference 49 CFR 172.202(c).	M N0 1/7	2	290	O	1	1	3	LH1	LH102	80	M	N0 1/7	
46-03		HAZMAT - UN/NA Identification Code Contains the United Nations/North America (UN/NA) code. Value 'UN' appears in the first two positions for UN codes. Value 'NA' appears in the first two positions for NA codes. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	M ID 6/6	2	290	O	1	1	3	LH1	LH103	277	O	ID 6/6	
46-05		HAZMAT - Description Use this element for clear text description for mandatory HAZMAT reporting such as, English and metric net explosive weights, ammunition round count, or number of hazardous pieces.	C AN 1/30	2	290	O	1	1	3	LH1	LH105	22	O	AN 1/30	

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	
46-06		HAZMAT - Unit or Basis for Measurement Code Use the unit of measure codes for quantity or volume of non-bulk shipments. This will typically be pounds, cubic feet, or a unit of measure other than pieces. If the weight of the hazardous material is measured in other than the above listed weight units of measure, refer to X12 Standard DE 355. (Use LH101 to express type of packaging.) ELEMENT CONDITION: Required if LH107 is used. See Section 6 for list of data values.	C ID 2/2	2	290	O	1	1	3	LH1	LH106	355	O	ID 2/2
46-07		HAZMAT - Quantity Quantity refers to the amount (i.e., weight in pounds, volume in cubic feet, or other such measurement) of the hazardous material commodity that is to be transported.	C R 1/15	2	290	O	1	1	3	LH1	LH107	380	O	R 1/15
46-10		HAZMAT - Packing Group Code Indicate the required 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. SOURCE: The Canadian Gazette, Part II available from Canadian Government Publishing Centre Supply and Services Canada Sample Values: I, II, III	C ID 1/3	2	290	O	1	1	3	LH1	LH110	254	O	ID 1/3
47		LH2 SEGMENT - HAZMAT Classification SEGMENT CONDITION: Required for HAZMAT shipments.	C	2	300	O	4	1	3	LH1	See X12 Standards for explanation of syntax notes. P0607P0809P1011			
47-01		HAZMAT - Class/Division Identify the hazard class or division prescribed for the material as shown in column 3 of 49 CFR 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 value 'NA'. A material for which the entry in this column is 'Forbidden' may not be offered for transportation nor be transported. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	M ID 1/30	2	300	O	4	1	3	LH1	LH201	215	O	ID 1/30
47-02		HAZMAT - Class Qualifier Repeat the LH2 loop as necessary to identify the primary and each subsidiary (secondary) hazard of the material being shipped. P - Primary S - Secondary	M ID 1/1	2	300	O	4	1	3	LH1	LH202	983	O	ID 1/1

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	
47-03		HAZMAT - Description Use this element for clear text description for mandatory HAZMAT reporting such as, English and metric net explosive weights, ammunition round count, or number of hazardous pieces. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	C ID 14/40	2	300	O	4	1	3	LH1	LH203	218	O	ID 14/40
47-04		HAZMAT - Description Clear text. Include required information such as Proper Shipping Name, DOT explosive Approval Number (EX-number), Competent Authority Approval Number, DOT Exemption (DOT-E) Number, Int'l Maritime Dangerous Good Code (IMDG), or whether N.O.S. regulatory requirements apply. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	C ID 4/25	2	300	O	4	1	3	LH1	LH204	222	O	ID 4/25
47-05		HAZMAT - Reportable Quantity Code For empty packagings or units containing the residue of a hazardous material, reference 49 CFR 172.203(e). ELEMENT CONDITION: Required to indicate a reportable quantity is present in the shipment. RQ - Reportable Quantity	C ID 2/2	2	300	O	4	1	3	LH1	LH205	759	O	ID 2/2
47-06		HAZMAT - Flashpoint Temperature Code ELEMENT CONDITION: Required if LH207 is used. CE - Centigrade, Celsius FA - Fahrenheit	C ID 2/2	2	300	O	4	1	3	LH1	LH206	355	C	ID 2/2
47-07		HAZMAT - Flashpoint Temperature	C R 1/4	2	300	O	4	1	3	LH1	LH207	408	C	R 1/4
48		N1 SEGMENT - Stop-off Loop LOOP CONDITION: This loop contains stop-off information and is used for direct booking transactions. The loop may repeat up to nine times to represent up to nine stop-offs. When stop-offs occur: 1. If the consignee changes, a new 304 transaction must be generated. 2. Each stop-off requires a separate N1 stop-off loop.	C	2	380	O	1	10	3	N1	See X12 Standards for explanation of syntax notes. R0203P0304			
48-01		Stop-off Code 45 - Drop-off Location Use '45' to denote Stop-off.	M ID 2/2	2	380	O	1	10	3	N1	N101	98	M	ID 2/3

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	
48-02		Stop-off Name Name of party responsible for receiving stop-off delivery of shipment. ELEMENT CONDITION: If DoDAAC is not available, this data element is mandatory.	C	AN	1/60	2	380	O	1	10	3	N1	N102	93	C AN 1/60
48-03		Stop-off Code Qualifier ELEMENT CONDITION: Required if N104 is used. 10 - Department of Defense Activity Address Code (DODAAC)	C	ID	2/2	2	380	O	1	10	3	N1	N103	66	C ID 1/2
48-04		Stop-off DoDAAC Code that identifies the activity responsible for receiving stop-off delivery of shipment.	C	AN	2/80	2	380	O	1	10	3	N1	N104	67	C AN 2/80
48-05		Stop-off Sequence Code Use '01' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. Use '02' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. Use '03' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. Use '04' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. Use '05' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. Use '06' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. Use '07' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. Use '08' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. Use '09' to indicate Stop-off Loop Sequence for which This Instance of the N1 Stop-off Loop Occurs. ELEMENT CONDITION: Required if N104 is used. 01 - Parent 02 - Child 03 - Corporation 04 - Subsidiary 05 - Wholly-Owned Subsidiary 06 - Division 07 - Company 08 - Doing Business As 09 - Component	C	ID	2/2	2	380	O	1	10	3	N1	N105	706	O ID 2/2
49		N2 SEGMENT - Stop-off SEGMENT CONDITION: Required if Additional Stop-off Name applies.	C			2	390	O	2	10	3	N1			
49-01		Additional Stop-off Name	M	AN	1/60	2	390	O	2	10	3	N1	N201	93	M AN 1/60

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		N3 SEGMENT - Stop-off SEGMENT CONDITION: Required if Stop-off Street is known.	C		2	400	O	2	10	3	N1				
50-01		Stop-off Street	M	AN	1/55	2	400	O	2	10	3	N1	N301	166	M AN 1/55
50-02		Additional Stop-off Street	C	AN	1/55	2	400	O	2	10	3	N1	N302	166	O AN 1/55
51		N4 SEGMENT - Stop-off SEGMENT CONDITION: Required if Stop-off City, State, and Postal Code is known.	C			2	410	O	1	10	3	N1			
															See X12 Standards for explanation of syntax notes. C0605
51-01		Stop-off City	M	AN	2/30	2	410	O	1	10	3	N1	N401	19	O AN 2/30
51-02		Stop-off State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	2	410	O	1	10	3	N1	N402	156	O ID 2/2
51-03		Stop-off Postal Code SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C	ID	3/15	2	410	O	1	10	3	N1	N403	116	O ID 3/15
51-04		Stop-off Country Code Use ISO Codes prime vendor shipments. SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	M	ID	2/3	2	410	O	1	10	3	N1	N404	26	O ID 2/3
52		G61 SEGMENT - Stop-off SEGMENT CONDITION: Required if point of contact information for the shipment stop-off is available.	C			2	420	O	3	10	3	N1			
															See X12 Standards for explanation of syntax notes. P0304
52-01		Contact Function Code IC - Information Contact	M	ID	2/2	2	420	O	3	10	3	N1	G6101	366	M ID 2/2
52-02		Stop-off Name	M	AN	1/60	2	420	O	3	10	3	N1	G6102	93	M AN 1/60
52-03		Stop-off Communication Number Qualifier ELEMENT CONDITION: Required if G6104 is used. TE - Telephone	C	ID	2/2	2	420	O	3	10	3	N1	G6103	365	C ID 2/2

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	
52-04		Stop-off Communication Number	C	AN	1/80	2	420	O	3	10	3	N1	G6104	364	C AN 1/80
53		L3 SEGMENT - Total Measurements	M			3	010	O	1	1	1	L3			
															See X12 Standards for explanation of syntax notes. P0102P0304P0910C1201P1415
53-01		Total Actual Weight of Shipment Totals of certified weights for all commodities on bill of lading (combined actual net weight: contents, goods and dunnage); does not include chassis and container.	M	R	1/10	3	010	O	1	1	1	L3	L301	81	C R 1/10
53-02		Weight Qualifier G - Gross Weight <i>Use 'G' to denote Weight for All Goods in Shipment.</i>	M	ID	1/1	3	010	O	1	1	1	L3	L302	187	C ID 1/2
53-09		Volume ELEMENT CONDITION: Required for direct booking transactions.	C	R	1/8	3	010	O	1	1	1	L3	L309	183	C R 1/8
53-10		Volume Unit Qualifier ELEMENT CONDITION: Required if L309 is used. E - Cubic Feet X - Cubic Meters	C	ID	1/1	3	010	O	1	1	1	L3	L310	184	C ID 1/1
53-11		Lading Quantity Total of all pieces for bill of lading (total of all QTY02 values).	C	N0	1/7	3	010	O	1	1	1	L3	L311	80	O N0 1/7
53-12		Weight Unit Code ELEMENT CONDITION: Required if L301 is used. K - Kilograms L - Pounds	C	ID	1/1	3	010	O	1	1	1	L3	L312	188	O ID 1/1
54		SE SEGMENT - Ocean Carrier Shipping Instructions Trailer	M			3	080	M	1						
54-01		Number of Included Segments	M	N0	1/10	3	080	M	1			SE01	96	M N0 1/10	
54-02		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	3	080	M	1			SE02	329	M AN 4/9	

Section 5.0

IC ELEMENTS IN EDI FORMAT

This appendix contains an example of the ocean carrier shipping instructions in the *ASC X12 Transaction Set 304* format.

How to Read the Examples

The example approximates a complete X12 transaction. Beginning with a transaction header segment (ST) and ending with a transaction trailer segment (SE), it represents a complete transaction unless otherwise noted. A tilde (“~”) delimits data element separators and a colon (“:”) delimits sub-element separators. End of segment is delimited by the new line (“n/l”) character.

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EXAMPLE 1

TABLE A - HEADER AREA

ST~304~000003658 n/l
B2~DD~MAEU~~[PORT CALL FILE NUMBER]~~PP n/l
B2A~00 n/l
N9~BN~550815 n/l
V1~8212702~INSPIRATION V652~~652~~~~L n/l
N1~ST~[DESTINATION NAME]~10~[DODAAC] n/l
N3~[STREET ADDRESS]~[ADDITIONAL ADDRESS] n/l
N4~CHARLESTON~SC~294010160~US n/l
N1~SH~[NAME]~10~[DODAAC] n/l
N3~[STREET ADDRESS]~[ADDITIONAL ADDRESS] n/l
N3~[ADDRESS]~[ADDITIONAL ADDRESS] n/l
N1~SF~[ORIGIN NAME]~10~[DODAAC] n/l
N3~[STREET ADDRESS]~[ADDITIONAL ADDRESS] n/l
N4~CHARLESTON~SC~294010160~US n/l
N1~SH~[SHIPPER NAME]~10~[DODAAC] n/l
N3~[STREET ADDRESS]~[ADDITIONAL ADDRESS] n/l
N3~[ADDRESS]~[ADDITIONAL ADDRESS] n/l
N1~CN~[CONSIGNEE NAME]~10~[DODAAC] n/l
N3~[ADDRESS]~[ADDITIONAL ADDRESS] n/l
N1~N1~[NAME] n/l
N3~[ADDRESS] n/l
N3~THE NETHERLANDS n/l
N1~BT~USBank/PowerTrack~1~[USBANK'S D-U-N-S NUMBER] n/l
G61~IC~[NAME]~TE~281-1234 n/l
R4~L~D~CHARLESTON n/l
R4~O~D~CHARLESTON n/l
R4~R~K~ROTTERDAM, NETH. n/l

TABLE B - DETAIL AREA

LX~1 n/l

N7~MAEU~7150782~10000~CE~~~~1000~E n/l

QTY~39~36~PL n/l

M7~47578~~SH n/l

N7~SEAU~8088141~8000~CE~~~~800~E n/l

QTY~39~36~PL n/l

M7~45405~~SH n/l

N7~MAEU~7247129~10000~CE~~~~1000~E n/l

QTY~39~36~PL n/l

L11~[TCN]~TG n/l

L0~1~~~62521~N~~~108~BOX~~K n/l

L5~~EXPORT BOXES ON 108 PALLETS IN~[NSN]~F~~0100771947 n/l

L5~~3X40' CONTAINERS CONTAINING 72 BOXES~[NSN]~F~~0100774366 n/l

L5~~ON 72 PALLETS OF . . . ~[NSN]~F~~0100774409 n/l

L5~~72 BOXES ON 72 PALLETS OF . . . ~[NSN]~F n/l

L5~~SC:2446 EXPRESS~[NSN]~F n/l

TABLE C - SUMMARY AREA

L3~18000~G~~~~~36~K n/l

SE~45~000003658 n/l

Section 6.0

APPLICATION CODE LISTS

35-09 -- Packaging Form Code

Data Value - Definition
AMM - Ammo Pack
BAG - Bag
BAL - Bale
BBL - Barrel
BDL - Bundle
BEM - Beam
BIC - Bing Chest
BIN - Bin
BKG - Bulk Bag
BLK - Bulk
BOB - Bobbin
BOT - Bottle
BOX - Box
BRG - Barge
BSK - Basket or hamper
BXI - Box, with inner container
BXT - Bucket
CAB - Cabinet
CAG - Cage
CAN - Can
CAR - Carrier
CAS - Case
CBC - Containers of Bulk Cargo
CBY - Carboy
CCS - Can Case
CHE - Cheeses
CHS - Chest
CLD - Car Load, Rail
CNA - Household Goods Containers, Wood
CNB - Container, MAC-ISO (Military Airlift Container - International Standards Organization) Light Weight 8x8x20 Foot Air
CNC - Container, Navy Cargo Transporter
CND - Container, Commercial Highway Lift
CNE - Engine Container
CNF - Multiwall Container Secured to Warehouse Pallet
CNT - Container
CNX - CONEX - Container Express
COL - Coil
CON - Cones
COR - Core
CRD - Cradle
CRT - Crate
CSK - Cask
CTN - Carton
CUB - Cube
CYL - Cylinder
DBK - Dry Bulk
DRK - Double-length Rack
DRM - Drum
DSK - Double-length Skid
DTB - Double-length Tote Bin
DUF - Duffle Bag
ENV - Envelope
FIR - Firkin
FLO - Flo-bin
FLX - Liner Bag Liquid
FRM - Frame
FSK - Flask
FWR - Forward Reel
GOH - Garments on Hangers
HED - Heads of Beef
HGH - Hogshead
HPR - Hamper
HPT - Hopper Truck
HRB - On Hanger or Rack in Boxes
HRK - Half-standard Rack
HTB - Half-Standard Tote Bin
JAR - Jar
JUG - Jug
KEG - Keg
KIT - Kit
KRK - Knockdown Rack
KTB - Knockdown Tote Bin
LBK - Liquid Bulk
LIF - Lifts
LOG - Log
LSE - Loose
LUG - Lug
LVN - Lift Van

35-09 -- Packaging Form Code (CONT)

Data Value - Definition
MLV - MILVAN - Military Van
MRP - Multi-Roll Pack
MSV - MSCVAN - Military Sealift Command Van
MXD - Mixed Type Pack
NOL - Noil
OVW - Overwrap
PAL - Pail
PCK - Packed - not otherwise specified
PCS - Pieces
PIR - Pims
PKG - Package
PLF - Platform
PLN - Pipeline
PLT - Pallet
POV - Private Vehicle
PRK - Pipe Rack
QTR - Quarter of Beef
RAL - Rail (Semiconductor)
RCK - Rack
REL - Reel
ROL - Roll
RVR - Reverse Reel
SAK - Sack
SBC - Liner Bag Dry
SCS - Suitcase
SHK - Shook
SHT - Sheet
SID - Side of Beef
SKD - Skid
SKE - Skid, elevating or lift truck
SLP - Slip Sheet
SLV - Sleeve
SPI - Spin Cylinders
SPL - Spool
SVN - SEAVAN - Sea Van
TBE - Tube
TBN - Tote Bin
TKR - Tank Car
TKT - Tank Truck
TLD - Intermodal Trailer/Container Load (Rail)
TNK - Tank
TRC - Tierce
TRI - Triwall Box
TRK - Trunk and Chest
TRU - Truck
TRY - Tray
TSS - Trunk, Salesmen Sample
TTC - Tote Can
TUB - Tub
UNP - Unpacked
UNT - Unit
VEH - Vehicles
VPK - Van Pack
WHE - On Own Wheel
WLC - Wheeled Carrier
WRP - Wrapped

46-01 -- HAZMAT - Unit of Measure Code

Data Value - Definition
01 - Actual Pounds
02 - Statute Mile
03 - Seconds
04 - Small Spray
05 - Lifts
06 - Digits
07 - Strand
08 - Heat Lots
09 - Tire
10 - Group
11 - Outfit
12 - Packet
13 - Ration
14 - Shot
15 - Stick
16 - 115 Kilogram Drum
17 - 100 Pound Drum
18 - 55 Gallon Drum
19 - Tank Truck
1A - Car Mile
1B - Car Count
1C - Locomotive Count
1D - Caboose Count
1E - Empty Car
1F - Train Mile
1G - Fuel Usage (Gallons)
1H - Caboose Mile
1I - Fixed Rate
1J - Ton Miles
1K - Locomotive Mile
1L - Total Car Count
1M - Total Car Mile
1N - Count
1O - Season
1P - Tank Car
1Q - Frames
1R - Transactions
1X - Quarter Mile
20 - 20 Foot Container
21 - 40 Foot Container
22 - Deciliter per Gram
23 - Grams per Cubic Centimeter
24 - Theoretical Pounds
25 - Grams per Square Centimeter
26 - Actual Tons
27 - Theoretical Tons
28 - Kilograms per Square Meter
29 - Pounds per 1000 Square Feet
2A - Radians Per Second
2B - Radians Per Second Squared
2C - Roentgen
2F - Volts Per Meter
2G - Volts (Alternating Current)
2H - Volts (Direct Current)
2I - British Thermal Units (BTUs) Per Hour
2J - Cubic Centimeters Per Second
2K - Cubic Feet Per Hour
2L - Cubic Feet Per Minute
2M - Centimeters Per Second
2N - Decibels
2P - Kilobyte
2Q - Kilobecquerel
2R - Kilocurie
2U - Megagram
2V - Megagrams Per Hour
2W - Bin
2X - Meters Per Minute
2Y - Milliroentgen
2Z - Millivolts
30 - Horsepower Days per Air Dry Metric Tons
31 - Catchweight
32 - Kilograms per Air Dry Metric Tons
33 - Kilopascal Square Meters per Gram
34 - Kilopascals per Millimeter
35 - Milliliters per Square Centimeter Second
36 - Cubic Feet per Minute per Square Foot
37 - Ounces per Square Foot
38 - Ounces per Square Foot per 0.01 Inch

46-01 -- HAZMAT - Unit of Measure Code (CONT)

Data Value - Definition
39 - Basis Points
3B - Megajoule
3C - Manmonth
3E - Pounds Per Pound of Product
3F - Kilograms Per Liter of Product
3G - Pounds Per Piece of Product
3H - Kilograms Per Kilogram of Product
3I - Kilograms Per Piece of Product
40 - Milliliter per Second
41 - Milliliter per Minute
43 - Super Bulk Bag
44 - 500 Kilogram Bulk Bag
45 - 300 Kilogram Bulk Bag
46 - 25 Kilogram Bulk Bag
47 - 50 Pound Bag
48 - Bulk Car Load
4A - Bobbin
4B - Cap
4C - Centistokes
4D - Curie
4E - 20-Pack
4F - 100-Pack
4G - Microliter
4H - Micrometer
4I - Meters Per Second
4J - Meters Per Second Per Second
4K - Milliampere
4L - Megabyte
4M - Milligrams Per Hour
4N - Megabecquerel
4O - Microfarad
4P - Newtons Per Meter
4Q - Ounce Inch
4R - Ounce Foot
4S - Pascal
4T - Picofarad
4U - Pounds Per Hour
4V - Cubic Meter Per Hour
4W - Ton Per Hour
4X - Kiloliter Per Hour
50 - Actual Kilograms
51 - Actual Tonnes
52 - Credits
53 - Theoretical Kilograms
54 - Theoretical Tonnes
56 - Sitas
57 - Mesh
58 - Net Kilograms
59 - Parts Per Million
5A - Barrels per Minute
5B - Batch
5C - Gallons per Thousand
5E - MMSCF/Day
5F - Pounds per Thousand
5G - Pump
5H - Stage
5I - Standard Cubic Foot
5J - Hydraulic Horse Power
5K - Count per Minute
5P - Seismic Level
5Q - Seismic Line
60 - Percent Weight
61 - Parts Per Billion
62 - Percent Per 1000 Hours
63 - Failure Rate In Time
64 - Pounds Per Square Inch Gauge
65 - Coulomb
66 - Oersteds
67 - Siemens
68 - Ampere
69 - Test Specific Scale
70 - Volt
71 - Volt-Ampere Per Pound
72 - Watts Per Pound
73 - Ampere Turn Per Centimeter
74 - Milli Pascals
76 - Gauss
77 - Mil

46-01 -- HAZMAT - Unit of Measure Code (CONT)

Data Value	Definition
78	- Kilogauss
79	- Electron Volt
80	- Pounds Per Square Inch Absolute
81	- Henry
82	- Ohm
83	- Farad
84	- Kilo Pounds Per Square Inch (KSI)
85	- Foot Pounds
86	- Joules
87	- Pounds per Cubic Foot
89	- Poise
8C	- Cord
8D	- Duty
8P	- Project
8R	- Program
8S	- Session
8U	- Square Kilometer
90	- Saybold Universal Second
91	- Stokes
92	- Calories per Cubic Centimeter
93	- Calories per Gram
94	- Curl Units
95	- 20,000 Gallon Tankcar
96	- 10,000 Gallon Tankcar
97	- 10 Kilogram Drum
98	- 15 Kilogram Drum
99	- Watt
A8	- Dollars per Hours
AA	- Ball
AB	- Bulk Pack
AC	- Acre
AD	- Bytes
AE	- Amperes per Meter
AF	- Centigram
AG	- Angstrom
AH	- Additional Minutes
AI	- Average Minutes Per Call
AJ	- Cop
AK	- Fathom
AL	- Access Lines
AM	- Ampoule
AN	- Minutes or Messages
AO	- Ampere-turn
AP	- Aluminum Pounds Only
AQ	- Anti-hemophilic Factor (AHF) Units
AR	- Suppository
AS	- Assortment
AT	- Atmosphere
AU	- Ocular Insert System
AV	- Capsule
AW	- Powder-Filled Vials
AX	- Twenty
AY	- Assembly
AZ	- British Thermal Units (BTUs) per Pound
B0	- British Thermal Units (BTUs) per Cubic Foot
B1	- Barrels per Day
B2	- Bunks
B3	- Batting Pound
B4	- Barrel, Imperial
B5	- Billet
B6	- Bun
B7	- Cycles
B8	- Board
B9	- Batt
BA	- Bale
BB	- Base Box
BC	- Bucket
BD	- Bundle
BE	- Beam
BF	- Board Feet
BG	- Bag
BH	- Brush
BI	- Bar
BJ	- Band
BK	- Book
BL	- Block
BM	- Bolt
BN	- Bulk

46-01 -- HAZMAT - Unit of Measure Code (CONT)

Data Value - Definition
BO - Bottle
BP - 100 Board Feet
BQ - Brake horse power
BR - Barrel
BS - Basket
BT - Belt
BU - Bushel
BV - Bushel, Dry Imperial
BW - Base Weight
BX - Box
BY - British Thermal Unit (BTU)
BZ - Million BTU's
C0 - Calls
C1 - Composite Product Pounds (Total Weight)
C2 - Carset
C3 - Centiliter
C4 - Carload
C5 - Cost
C6 - Cell
C7 - Centipoise (CPS)
C8 - Cubic Decimeter
C9 - Coil Group
CA - Case
CB - Carboy
CC - Cubic Centimeter
CD - Carat
CE - Centigrade, Celsius
CF - Cubic Feet
CG - Card
CH - Container
CI - Cubic Inches
CJ - Cone
CK - Connector
CL - Cylinder
CM - Centimeter
CN - Can
CO - Cubic Meters (Net)
CP - Crate
CQ - Cartridge
CR - Cubic Meter
CS - Cassette
CT - Carton
CU - Cup
CV - Cover
CW - Hundred Pounds (CWT)
CX - Coil
CY - Cubic Yard
CZ - Combo
D2 - Shares
D3 - Square Decimeter
D5 - Kilogram Per Square Centimeter
D8 - Draize Score
D9 - Dyne per Square Centimeter
DA - Days
DB - Dry Pounds
DC - Disk (Disc)
DD - Degree
DE - Deal
DF - Dram
DG - Decigram
DH - Miles
DI - Dispenser
DJ - Decagram
DK - Kilometers
DL - Deciliter
DM - Decimeter
DN - Deci Newton-Meter
DO - Dollars, U.S.
DP - Dozen Pair
DQ - Data Records
DR - Drum
DS - Display
DT - Dry Ton
DU - Dyne
DW - Calendar Days
DX - Dynes per Centimeter
DY - Directory Books
DZ - Dozen

46-01 -- HAZMAT - Unit of Measure Code (CONT)

Data Value - Definition
E1 - Hectometer
E3 - Inches, Fraction--Average
E4 - Inches, Fraction--Minimum
E5 - Inches, Fraction--Actual
E7 - Inches, Decimal--Average
E8 - Inches, Decimal--Actual
E9 - English, (Feet, Inches)
EA - Each
EB - Electronic Mail Boxes
EC - Each per Month
ED - Inches, Decimal--Nominal
EE - Employees
EF - Inches, Fraction-Nominal
EG - Double-time Hours
EH - Knots
EJ - Locations
EM - Inches, Decimal-Minimum
EP - Eleven pack
EQ - Equivalent Gallons
EV - Envelope
EX - Feet, Inches and Fraction
EY - Feet, Inches and Decimal
EZ - Feet and Decimal
F1 - Thousand Cubic Feet Per Day
F2 - International Unit
F3 - Equivalent
F4 - Minim
F5 - MOL
F6 - Price Per Share
F9 - Fibers per Cubic Centimeter of Air
FA - Fahrenheit
FB - Fields
FC - 1000 Cubic Feet
FD - Million Particles per Cubic Foot
FE - Track Foot
FF - Hundred Cubic Meters
FG - Transdermal Patch
FH - Micromolar
FJ - Sizing Factor
FK - Fibers
FL - Flake Ton
FM - Million Cubic Feet
FO - Fluid Ounce
FP - Pounds per Sq. Ft.
FR - Feet Per Minute
FS - Feet Per Second
FT - Foot
FZ - Fluid Ounce (Imperial)
G2 - U.S. Gallons Per Minute
G3 - Imperial Gallons Per Minute
G4 - Gigabecquerel
G5 - Gill (Imperial)
G7 - Microfiche Sheet
GA - Gallon
GB - Gallons/Day
GC - Grams per 100 Grams
GD - Gross Barrels
GE - Pounds per Gallon
GF - Grams per 100 Centimeters
GG - Great Gross (Dozen Gross)
GH - Half Gallon
GI - Imperial Gallons
GJ - Grams per Milliliter
GK - Grams per Kilogram
GL - Grams per Liter
GM - Grams per Sq. Meter
GN - Gross Gallons
GO - Milligrams per Square Meter
GP - Milligrams per Cubic Meter
GQ - Micrograms per Cubic Meter
GR - Gram
GS - Gross
GT - Gross Kilogram
GU - Gauss per Oersteds
GV - Gigajoules
GW - Gallons Per Thousand Cubic Feet
GX - Grain
GY - Gross Yard

46-01 -- HAZMAT - Unit of Measure Code (CONT)

Data Value - Definition
GZ - Gage Systems
H1 - Half Pages - Electronic
H2 - Half Liter
H4 - Hectoliter
HA - Hank
HB - Hundred Boxes
HC - Hundred Count
HD - Half Dozen
HE - Hundredth of a Carat
HF - Hundred Feet
HG - Hectogram
HH - Hundred Cubic Feet
HI - Hundred Sheets
HJ - Horsepower
HK - Hundred Kilograms
HL - Hundred Feet - Linear
HM - Miles Per Hour
HN - Millimeters of Mercury
HO - Hundred Troy Ounces
HP - Millimeter H2O
HQ - Hectare
HR - Hours
HS - Hundred Square Feet
HT - Half Hour
HU - Hundred
HV - Hundred Weight (Short)
HW - Hundred Weight (Long)
HY - Hundred Yards
HZ - Hertz
IA - Inch Pound
IB - Inches Per Second (Vibration Velocity)
IC - Counts per Inch
IE - Person
IF - Inches of Water
IH - Inhaler
II - Column-Inches
IK - Peaks per Inch (PPI)
IL - Inches per Minute
IM - Impressions
IN - Inch
IP - Insurance Policy
IT - Counts per Centimeter
IU - Inches Per Second (Linear Speed)
IV - Inches Per Second Per Second (Acceleration)
IW - Inches Per Second Per Second (Vibration Acceleration)
J2 - Joule Per Kilogram
JA - Job
JB - Jumbo
JE - Joule Per Kelvin
JG - Joule per Gram
JK - Mega Joule per Kilogram
JM - Megajoule/Cubic Meter
JO - Joint
JR - Jar
JU - Jug
K1 - Kilowatt Demand
K2 - Kilovolt Amperes Reactive Demand
K3 - Kilovolt Amperes Reactive Hour
K4 - Kilovolt Amperes
K5 - Kilovolt Amperes Reactive
K6 - Kiloliter
K7 - Kilowatt
K9 - Kilograms per Millimeter Squared (KG/MM2)
KA - Cake
KB - Kilocharacters
KC - Kilograms per Cubic Meter
KD - Kilograms Decimal
KE - Keg
KF - Kilopackets
KG - Kilogram
KH - Kilowatt Hour
KI - Kilograms/Millimeter Width
KJ - Kilosegments
KK - 100 Kilograms
KL - Kilograms/Meter
KM - Kilograms per Square Meter, Kilograms, Decimal
KO - Millequivalence Caustic Potash per Gram of Product
KP - Kilometers Per Hour

46-01 -- HAZMAT - Unit of Measure Code (CONT)

Data Value - Definition
KQ - Kilopascal
KR - Kiloentgen
KS - 1000 Pounds per Square Inch
KT - Kit
KU - Task
KV - Kelvin
KW - Kilograms per Millimeter
KX - Milliliters per Kilogram
L2 - Liters Per Minute
LA - Pounds Per Cubic Inch
LB - Pound
LC - Linear Centimeter
LE - Lite
LF - Linear Foot
LG - Long Ton
LH - Labor Hours
LI - Linear Inch
LJ - Large Spray
LK - Link
LL - Lifetime
LM - Linear Meter
LN - Length
LO - Lot
LP - Liquid Pounds
LQ - Liters Per Day
LR - Layer(s)
LS - Lump Sum
LT - Liter
LX - Linear Yards Per Pound
LY - Linear Yard
M0 - Magnetic Tapes
M1 - Milligrams per Liter
M2 - Millimeter-Actual
M3 - Mat
M4 - Monetary Value
M5 - Microcurie
M6 - Millibar
M7 - Micro Inch
M8 - Mega Pascals
M9 - Million British Thermal Units per One Thousand Cubic Feet
MA - Machine/Unit
MB - Millimeter-Nominal
MC - Microgram
MD - Air Dry Metric Ton
ME - Milligram
MF - Milligram per Sq. Ft. per Side
MG - Metric Gross Ton
MH - Microns (Micrometers)
MI - Metric
MJ - Minutes
MK - Milligrams Per Square Inch
ML - Milliliter
MM - Millimeter
MN - Metric Net Ton
MO - Months
MP - Metric Ton
MQ - 1000 Meters
MR - Meter
MS - Square Millimeter
MT - Metric Long Ton
MU - Millicurie
MV - Number of Mults
MW - Metric Ton Kilograms
MX - Mixed
MY - Millimeter-Average
MZ - Millimeter-minimum
N1 - Pen Calories
N2 - Number of Lines
N3 - Print Point
N4 - Pen Grams (Protein)
N6 - Megahertz
N7 - Parts
N9 - Cartridge Needle
NA - Milligrams per Kilogram
NB - Barge
NC - Car
ND - Net Barrels
NE - Net Liters

46-01 -- HAZMAT - Unit of Measure Code (CONT)

Data Value - Definition
NF - Messages
NG - Net Gallons
NH - Message Hours
NI - Net Imperial Gallons
NJ - Number of Screens
NL - Load
NM - Nautical Mile
NN - Train
NQ - Mho
NR - Micro Mho
NS - Short Ton
NT - Trailer
NU - Newton-Meter
NV - Vehicle
NW - Newton
NX - Parts Per Thousand
NY - Pounds Per Air-Dry Metric Ton
OA - Panel
OC - Billboard
ON - Ounces per Square Yard
OP - Two pack
OT - Overtime Hours
OZ - Ounce - Av
P0 - Pages - Electronic
P1 - Percent
P2 - Pounds per Foot
P3 - Three pack
P4 - Four-pack
P5 - Five-pack
P6 - Six pack
P7 - Seven pack
P8 - Eight-pack
P9 - Nine pack
PA - Pail
PB - Pair Inches
PC - Piece
PD - Pad
PE - Pounds Equivalent
PF - Pallet (Lift)
PG - Pounds Gross
PH - Pack (PAK)
PI - Pitch
PJ - Pounds, Decimal - Pounds per Square Foot - Pound Gage
PK - Package
PL - Pallet/Unit Load
PM - Pounds-Percentage
PN - Pounds Net
PO - Pounds per Inch of Length
PP - Plate
PQ - Pages per Inch
PR - Pair
PS - Pounds per Sq. Inch
PT - Pint
PU - Mass Pounds
PV - Half Pint
PW - Pounds per Inch of Width
PX - Pint, Imperial
PY - Peck, Dry U.S.
PZ - Peck, Dry Imperial
Q1 - Quarter (Time)
Q2 - Pint U.S. Dry
Q3 - Meal
Q4 - Fifty
Q5 - Twenty-Five
Q6 - Thirty-Six
Q7 - Twenty-Four
QA - Pages - Facsimile
QB - Pages - Hardcopy
QC - Channel
QD - Quarter Dozen
QE - Photographs
QH - Quarter Hours
QK - Quarter Kilogram
QR - Quire
QS - Quart, Dry U.S.
QT - Quart
QU - Quart, Imperial
R1 - Pica

46-01 -- HAZMAT - Unit of Measure Code (CONT)

Data Value - Definition
R2 - Becquerel
R3 - Revolutions Per Minute
R4 - Calorie
R5 - Thousands of Dollars
R6 - Millions of Dollars
R7 - Billions of Dollars
R8 - Roentgen Equivalent in Man (REM)
R9 - Thousand Cubic Meters
RA - Rack
RB - Radian
RC - Rod (area) - 16.25 Square Yards
RD - Rod (length) - 5.5 Yards
RE - Reel
RG - Ring
RH - Running or Operating Hours
RK - Roll-Metric Measure
RL - Roll
RM - Ream
RN - Ream-Metric Measure
RO - Round
RP - Pounds per Ream
RS - Resets
RT - Revenue Ton Miles
RU - Run
S1 - Semester
S2 - Trimester
S3 - Square Feet per Second
S4 - Square Meters per Second
S5 - Sixty-fourths of an Inch
S6 - Sessions
S7 - Storage Units
S8 - Standard Advertising Units (SAUs)
S9 - Slip Sheet
SA - Sandwich
SB - Square Mile
SC - Square Centimeter
SD - Solid Pounds
SE - Section
SF - Square Foot
SG - Segment
SH - Sheet
SI - Square Inch
SJ - Sack
SK - Split Tanktruck
SL - Sleeve
SM - Square Meter
SN - Square Rod
SO - Spool
SP - Shelf Package
SQ - Square
SR - Strip
SS - Sheet-Metric Measure
ST - Set
SV - Skid
SW - Skein
SX - Shipment
SY - Square Yard
SZ - Syringe
T0 - Telecommunications Lines in Service
T1 - Thousand pounds gross
T2 - Thousandths of an Inch
T3 - Thousand Pieces
T4 - Thousand Bags
T5 - Thousand Casings
T6 - Thousand Gallons
T7 - Thousand Impressions
T8 - Thousand Linear Inches
T9 - Thousand Kilowatt Hours
TA - Tenth Cubic Foot
TB - Tube
TC - Truckload
TD - Therms
TE - Tote
TF - Ten Square Yards
TG - Gross Ton
TH - Thousand
TI - Thousand Square Inches
TJ - Thousand Sq. Centimeters

46-01 -- HAZMAT - Unit of Measure Code (CONT)

Data Value - Definition
TK - Tank
TL - Thousand Feet (Linear)
TM - Thousand Feet (Board)
TN - Net Ton (2,000 LB).
TO - Troy Ounce
TP - Ten-pack
TQ - Thousand Feet
TR - Ten Square Feet
TS - Thousand Square Feet
TT - Thousand Linear Meters
TU - Thousand Linear Yards
TV - Thousand Kilograms
TW - Thousand Sheets
TX - Troy Pound
TY - Tray
TZ - Thousand Cubic Feet
U1 - Treatments
U2 - Tablet
U3 - Ten
U5 - Two Hundred Fifty
UA - Torr
UB - Telecommunications Lines in Service - Average
UC - Telecommunications Ports
UD - Tenth Minutes
UE - Tenth Hours
UF - Usage per Telecommunications Line - Average
UH - Ten Thousand Yards
UL - Unitless
UM - Million Units
UN - Unit
UP - Troche
UQ - Wafer
UR - Application
US - Dosage Form
UT - Inhalation
UU - Lozenge
UV - Percent Topical Only
UW - Milliequivalent
UX - Dram (Minim)
UY - Fifty Square Feet
UZ - Fifty Count
V1 - Flat
V2 - Pouch
VA - Volt-ampere per Kilogram
VC - Five Hundred
VI - Vial
VP - Percent Volume
VR - Volt-ampere-reactive
VS - Visit
W2 - Wet Kilo
WA - Watts per Kilogram
WB - Wet Pound
WD - Work Days
WE - Wet Ton
WG - Wine Gallon
WH - Wheel
WI - Weight per Square Inch
WK - Week
WM - Working Months
WP - Pennyweight
WR - Wrap
WW - Milliliters of Water
X1 - Chains (Land Survey)
X2 - Bunch
X3 - Clove
X4 - Drop
X5 - Head
X6 - Heart
X7 - Leaf
X8 - Loaf
X9 - Portion
XP - Base Box per Pound
Y1 - Slice
Y2 - Tablespoon
Y3 - Teaspoon
Y4 - Tub
YD - Yard
YL - 100 Lineal Yards

46-01 -- HAZMAT - Unit of Measure Code (CONT)

Data Value - Definition
YR - Years YT - Ten Yards Z1 - Lift Van Z2 - Chest Z3 - Cask Z4 - Hogshead Z5 - Lug Z6 - Conference Points Z8 - Newspaper Agate Line ZA - Bimonthly ZB - Biweekly ZC - Semiannual ZP - Page ZZ - Mutually Defined

46-06 -- HAZMAT - Unit or Basis for Measurement Code

Data Value - Definition
01 - Actual Pounds
02 - Statute Mile
03 - Seconds
04 - Small Spray
05 - Lifts
06 - Digits
07 - Strand
08 - Heat Lots
09 - Tire
10 - Group
11 - Outfit
12 - Packet
13 - Ration
14 - Shot
15 - Stick
16 - 115 Kilogram Drum
17 - 100 Pound Drum
18 - 55 Gallon Drum
19 - Tank Truck
1A - Car Mile
1B - Car Count
1C - Locomotive Count
1D - Caboose Count
1E - Empty Car
1F - Train Mile
1G - Fuel Usage (Gallons)
1H - Caboose Mile
1I - Fixed Rate
1J - Ton Miles
1K - Locomotive Mile
1L - Total Car Count
1M - Total Car Mile
1N - Count
1O - Season
1P - Tank Car
1Q - Frames
1R - Transactions
1X - Quarter Mile
20 - 20 Foot Container
21 - 40 Foot Container
22 - Deciliter per Gram
23 - Grams per Cubic Centimeter
24 - Theoretical Pounds
25 - Grams per Square Centimeter
26 - Actual Tons
27 - Theoretical Tons
28 - Kilograms per Square Meter
29 - Pounds per 1000 Square Feet
2A - Radians Per Second
2B - Radians Per Second Squared
2C - Roentgen
2F - Volts Per Meter
2G - Volts (Alternating Current)
2H - Volts (Direct Current)
2I - British Thermal Units (BTUs) Per Hour
2J - Cubic Centimeters Per Second
2K - Cubic Feet Per Hour
2L - Cubic Feet Per Minute
2M - Centimeters Per Second
2N - Decibels
2P - Kilobyte
2Q - Kilobecquerel
2R - Kilocurie
2U - Megagram
2V - Megagrams Per Hour
2W - Bin
2X - Meters Per Minute
2Y - Milliroentgen
2Z - Millivolts
30 - Horsepower Days per Air Dry Metric Tons
31 - Catchweight
32 - Kilograms per Air Dry Metric Tons
33 - Kilopascal Square Meters per Gram
34 - Kilopascals per Millimeter
35 - Milliliters per Square Centimeter Second
36 - Cubic Feet per Minute per Square Foot
37 - Ounces per Square Foot
38 - Ounces per Square Foot per 0.01 Inch

46-06 -- HAZMAT - Unit or Basis for Measurement Code (CONT)

Data Value - Definition
39 - Basis Points
3B - Megajoule
3C - Manmonth
3E - Pounds Per Pound of Product
3F - Kilograms Per Liter of Product
3G - Pounds Per Piece of Product
3H - Kilograms Per Kilogram of Product
3I - Kilograms Per Piece of Product
40 - Milliliter per Second
41 - Milliliter per Minute
43 - Super Bulk Bag
44 - 500 Kilogram Bulk Bag
45 - 300 Kilogram Bulk Bag
46 - 25 Kilogram Bulk Bag
47 - 50 Pound Bag
48 - Bulk Car Load
4A - Bobbin
4B - Cap
4C - Centistokes
4D - Curie
4E - 20-Pack
4F - 100-Pack
4G - Microliter
4H - Micrometer
4I - Meters Per Second
4J - Meters Per Second Per Second
4K - Milliampere
4L - Megabyte
4M - Milligrams Per Hour
4N - Megabecquerel
4O - Microfarad
4P - Newtons Per Meter
4Q - Ounce Inch
4R - Ounce Foot
4S - Pascal
4T - Picofarad
4U - Pounds Per Hour
4V - Cubic Meter Per Hour
4W - Ton Per Hour
4X - Kiloliter Per Hour
50 - Actual Kilograms
51 - Actual Tonnes
52 - Credits
53 - Theoretical Kilograms
54 - Theoretical Tonnes
56 - Sitas
57 - Mesh
58 - Net Kilograms
59 - Parts Per Million
5A - Barrels per Minute
5B - Batch
5C - Gallons per Thousand
5E - MMSCF/Day
5F - Pounds per Thousand
5G - Pump
5H - Stage
5I - Standard Cubic Foot
5J - Hydraulic Horse Power
5K - Count per Minute
5P - Seismic Level
5Q - Seismic Line
60 - Percent Weight
61 - Parts Per Billion
62 - Percent Per 1000 Hours
63 - Failure Rate In Time
64 - Pounds Per Square Inch Gauge
65 - Coulomb
66 - Oersteds
67 - Siemens
68 - Ampere
69 - Test Specific Scale
70 - Volt
71 - Volt-Ampere Per Pound
72 - Watts Per Pound
73 - Ampere Turn Per Centimeter
74 - Milli Pascals
76 - Gauss
77 - Mil

46-06 -- HAZMAT - Unit or Basis for Measurement Code (CONT)

Data Value - Definition
78 - Kilogauss
79 - Electron Volt
80 - Pounds Per Square Inch Absolute
81 - Henry
82 - Ohm
83 - Farad
84 - Kilo Pounds Per Square Inch (KSI)
85 - Foot Pounds
86 - Joules
87 - Pounds per Cubic Foot
89 - Poise
8C - Cord
8D - Duty
8P - Project
8R - Program
8S - Session
8U - Square Kilometer
90 - Saybold Universal Second
91 - Stokes
92 - Calories per Cubic Centimeter
93 - Calories per Gram
94 - Curl Units
95 - 20,000 Gallon Tankcar
96 - 10,000 Gallon Tankcar
97 - 10 Kilogram Drum
98 - 15 Kilogram Drum
99 - Watt
A8 - Dollars per Hours
AA - Ball
AB - Bulk Pack
AC - Acre
AD - Bytes
AE - Amperes per Meter
AF - Centigram
AG - Angstrom
AH - Additional Minutes
AI - Average Minutes Per Call
AJ - Cop
AK - Fathom
AL - Access Lines
AM - Ampoule
AN - Minutes or Messages
AO - Ampere-turn
AP - Aluminum Pounds Only
AQ - Anti-hemophilic Factor (AHF) Units
AR - Suppository
AS - Assortment
AT - Atmosphere
AU - Ocular Insert System
AV - Capsule
AW - Powder-Filled Vials
AX - Twenty
AY - Assembly
AZ - British Thermal Units (BTUs) per Pound
B0 - British Thermal Units (BTUs) per Cubic Foot
B1 - Barrels per Day
B2 - Bunks
B3 - Batting Pound
B4 - Barrel, Imperial
B5 - Billet
B6 - Bun
B7 - Cycles
B8 - Board
B9 - Batt
BA - Bale
BB - Base Box
BC - Bucket
BD - Bundle
BE - Beam
BF - Board Feet
BG - Bag
BH - Brush
BI - Bar
BJ - Band
BK - Book
BL - Block
BM - Bolt
BN - Bulk

46-06 -- HAZMAT - Unit or Basis for Measurement Code (CONT)

Data Value - Definition
BO - Bottle
BP - 100 Board Feet
BQ - Brake horse power
BR - Barrel
BS - Basket
BT - Belt
BU - Bushel
BV - Bushel, Dry Imperial
BW - Base Weight
BX - Box
BY - British Thermal Unit (BTU)
BZ - Million BTU's
C0 - Calls
C1 - Composite Product Pounds (Total Weight)
C2 - Carset
C3 - Centiliter
C4 - Carload
C5 - Cost
C6 - Cell
C7 - Centipoise (CPS)
C8 - Cubic Decimeter
C9 - Coil Group
CA - Case
CB - Carboy
CC - Cubic Centimeter
CD - Carat
CE - Centigrade, Celsius
CF - Cubic Feet
CG - Card
CH - Container
CI - Cubic Inches
CJ - Cone
CK - Connector
CL - Cylinder
CM - Centimeter
CN - Can
CO - Cubic Meters (Net)
CP - Crate
CQ - Cartridge
CR - Cubic Meter
CS - Cassette
CT - Carton
CU - Cup
CV - Cover
CW - Hundred Pounds (CWT)
CX - Coil
CY - Cubic Yard
CZ - Combo
D2 - Shares
D3 - Square Decimeter
D5 - Kilogram Per Square Centimeter
D8 - Draize Score
D9 - Dyne per Square Centimeter
DA - Days
DB - Dry Pounds
DC - Disk (Disc)
DD - Degree
DE - Deal
DF - Dram
DG - Decigram
DH - Miles
DI - Dispenser
DJ - Decagram
DK - Kilometers
DL - Deciliter
DM - Decimeter
DN - Deci Newton-Meter
DO - Dollars, U.S.
DP - Dozen Pair
DQ - Data Records
DR - Drum
DS - Display
DT - Dry Ton
DU - Dyne
DW - Calendar Days
DX - Dynes per Centimeter
DY - Directory Books
DZ - Dozen

46-06 -- HAZMAT - Unit or Basis for Measurement Code (CONT)

Data Value - Definition
E1 - Hectometer
E3 - Inches, Fraction--Average
E4 - Inches, Fraction--Minimum
E5 - Inches, Fraction--Actual
E7 - Inches, Decimal--Average
E8 - Inches, Decimal--Actual
E9 - English, (Feet, Inches)
EA - Each
EB - Electronic Mail Boxes
EC - Each per Month
ED - Inches, Decimal--Nominal
EE - Employees
EF - Inches, Fraction-Nominal
EG - Double-time Hours
EH - Knots
EJ - Locations
EM - Inches, Decimal-Minimum
EP - Eleven pack
EQ - Equivalent Gallons
EV - Envelope
EX - Feet, Inches and Fraction
EY - Feet, Inches and Decimal
EZ - Feet and Decimal
F1 - Thousand Cubic Feet Per Day
F2 - International Unit
F3 - Equivalent
F4 - Minim
F5 - MOL
F6 - Price Per Share
F9 - Fibers per Cubic Centimeter of Air
FA - Fahrenheit
FB - Fields
FC - 1000 Cubic Feet
FD - Million Particles per Cubic Foot
FE - Track Foot
FF - Hundred Cubic Meters
FG - Transdermal Patch
FH - Micromolar
FJ - Sizing Factor
FK - Fibers
FL - Flake Ton
FM - Million Cubic Feet
FO - Fluid Ounce
FP - Pounds per Sq. Ft.
FR - Feet Per Minute
FS - Feet Per Second
FT - Foot
FZ - Fluid Ounce (Imperial)
G2 - U.S. Gallons Per Minute
G3 - Imperial Gallons Per Minute
G4 - Gigabecquerel
G5 - Gill (Imperial)
G7 - Microfiche Sheet
GA - Gallon
GB - Gallons/Day
GC - Grams per 100 Grams
GD - Gross Barrels
GE - Pounds per Gallon
GF - Grams per 100 Centimeters
GG - Great Gross (Dozen Gross)
GH - Half Gallon
GI - Imperial Gallons
GJ - Grams per Milliliter
GK - Grams per Kilogram
GL - Grams per Liter
GM - Grams per Sq. Meter
GN - Gross Gallons
GO - Milligrams per Square Meter
GP - Milligrams per Cubic Meter
GQ - Micrograms per Cubic Meter
GR - Gram
GS - Gross
GT - Gross Kilogram
GU - Gauss per Oersteds
GV - Gigajoules
GW - Gallons Per Thousand Cubic Feet
GX - Grain
GY - Gross Yard

46-06 -- HAZMAT - Unit or Basis for Measurement Code (CONT)

Data Value - Definition
GZ - Gage Systems
H1 - Half Pages - Electronic
H2 - Half Liter
H4 - Hectoliter
HA - Hank
HB - Hundred Boxes
HC - Hundred Count
HD - Half Dozen
HE - Hundredth of a Carat
HF - Hundred Feet
HG - Hectogram
HH - Hundred Cubic Feet
HI - Hundred Sheets
HJ - Horsepower
HK - Hundred Kilograms
HL - Hundred Feet - Linear
HM - Miles Per Hour
HN - Millimeters of Mercury
HO - Hundred Troy Ounces
HP - Millimeter H2O
HQ - Hectare
HR - Hours
HS - Hundred Square Feet
HT - Half Hour
HU - Hundred
HV - Hundred Weight (Short)
HW - Hundred Weight (Long)
HY - Hundred Yards
HZ - Hertz
IA - Inch Pound
IB - Inches Per Second (Vibration Velocity)
IC - Counts per Inch
IE - Person
IF - Inches of Water
IH - Inhaler
II - Column-Inches
IK - Peaks per Inch (PPI)
IL - Inches per Minute
IM - Impressions
IN - Inch
IP - Insurance Policy
IT - Counts per Centimeter
IU - Inches Per Second (Linear Speed)
IV - Inches Per Second Per Second (Acceleration)
IW - Inches Per Second Per Second (Vibration Acceleration)
J2 - Joule Per Kilogram
JA - Job
JB - Jumbo
JE - Joule Per Kelvin
JG - Joule per Gram
JK - Mega Joule per Kilogram
JM - Megajoule/Cubic Meter
JO - Joint
JR - Jar
JU - Jug
K1 - Kilowatt Demand
K2 - Kilovolt Amperes Reactive Demand
K3 - Kilovolt Amperes Reactive Hour
K4 - Kilovolt Amperes
K5 - Kilovolt Amperes Reactive
K6 - Kiloliter
K7 - Kilowatt
K9 - Kilograms per Millimeter Squared (KG/MM2)
KA - Cake
KB - Kilocharacters
KC - Kilograms per Cubic Meter
KD - Kilograms Decimal
KE - Keg
KF - Kilopackets
KG - Kilogram
KH - Kilowatt Hour
KI - Kilograms/Millimeter Width
KJ - Kilosegments
KK - 100 Kilograms
KL - Kilograms/Meter
KM - Kilograms per Square Meter, Kilograms, Decimal
KO - Millequivalence Caustic Potash per Gram of Product
KP - Kilometers Per Hour

46-06 -- HAZMAT - Unit or Basis for Measurement Code (CONT)

Data Value - Definition
KQ - Kilopascal
KR - Kiloentgen
KS - 1000 Pounds per Square Inch
KT - Kit
KU - Task
KV - Kelvin
KW - Kilograms per Millimeter
KX - Milliliters per Kilogram
L2 - Liters Per Minute
LA - Pounds Per Cubic Inch
LB - Pound
LC - Linear Centimeter
LE - Lite
LF - Linear Foot
LG - Long Ton
LH - Labor Hours
LI - Linear Inch
LJ - Large Spray
LK - Link
LL - Lifetime
LM - Linear Meter
LN - Length
LO - Lot
LP - Liquid Pounds
LQ - Liters Per Day
LR - Layer(s)
LS - Lump Sum
LT - Liter
LX - Linear Yards Per Pound
LY - Linear Yard
M0 - Magnetic Tapes
M1 - Milligrams per Liter
M2 - Millimeter-Actual
M3 - Mat
M4 - Monetary Value
M5 - Microcurie
M6 - Millibar
M7 - Micro Inch
M8 - Mega Pascals
M9 - Million British Thermal Units per One Thousand Cubic Feet
MA - Machine/Unit
MB - Millimeter-Nominal
MC - Microgram
MD - Air Dry Metric Ton
ME - Milligram
MF - Milligram per Sq. Ft. per Side
MG - Metric Gross Ton
MH - Microns (Micrometers)
MI - Metric
MJ - Minutes
MK - Milligrams Per Square Inch
ML - Milliliter
MM - Millimeter
MN - Metric Net Ton
MO - Months
MP - Metric Ton
MQ - 1000 Meters
MR - Meter
MS - Square Millimeter
MT - Metric Long Ton
MU - Millicurie
MV - Number of Mults
MW - Metric Ton Kilograms
MX - Mixed
MY - Millimeter-Average
MZ - Millimeter-minimum
N1 - Pen Calories
N2 - Number of Lines
N3 - Print Point
N4 - Pen Grams (Protein)
N6 - Megahertz
N7 - Parts
N9 - Cartridge Needle
NA - Milligrams per Kilogram
NB - Barge
NC - Car
ND - Net Barrels
NE - Net Liters

46-06 -- HAZMAT - Unit or Basis for Measurement Code (CONT)

Data Value - Definition
NF - Messages
NG - Net Gallons
NH - Message Hours
NI - Net Imperial Gallons
NJ - Number of Screens
NL - Load
NM - Nautical Mile
NN - Train
NQ - Mho
NR - Micro Mho
NS - Short Ton
NT - Trailer
NU - Newton-Meter
NV - Vehicle
NW - Newton
NX - Parts Per Thousand
NY - Pounds Per Air-Dry Metric Ton
OA - Panel
OC - Billboard
ON - Ounces per Square Yard
OP - Two pack
OT - Overtime Hours
OZ - Ounce - Av
P0 - Pages - Electronic
P1 - Percent
P2 - Pounds per Foot
P3 - Three pack
P4 - Four-pack
P5 - Five-pack
P6 - Six pack
P7 - Seven pack
P8 - Eight-pack
P9 - Nine pack
PA - Pail
PB - Pair Inches
PC - Piece
PD - Pad
PE - Pounds Equivalent
PF - Pallet (Lift)
PG - Pounds Gross
PH - Pack (PAK)
PI - Pitch
PJ - Pounds, Decimal - Pounds per Square Foot - Pound Gage
PK - Package
PL - Pallet/Unit Load
PM - Pounds-Percentage
PN - Pounds Net
PO - Pounds per Inch of Length
PP - Plate
PQ - Pages per Inch
PR - Pair
PS - Pounds per Sq. Inch
PT - Pint
PU - Mass Pounds
PV - Half Pint
PW - Pounds per Inch of Width
PX - Pint, Imperial
PY - Peck, Dry U.S.
PZ - Peck, Dry Imperial
Q1 - Quarter (Time)
Q2 - Pint U.S. Dry
Q3 - Meal
Q4 - Fifty
Q5 - Twenty-Five
Q6 - Thirty-Six
Q7 - Twenty-Four
QA - Pages - Facsimile
QB - Pages - Hardcopy
QC - Channel
QD - Quarter Dozen
QE - Photographs
QH - Quarter Hours
QK - Quarter Kilogram
QR - Quire
QS - Quart, Dry U.S.
QT - Quart
QU - Quart, Imperial
R1 - Pica

46-06 -- HAZMAT - Unit or Basis for Measurement Code (CONT)

Data Value - Definition
R2 - Becquerel
R3 - Revolutions Per Minute
R4 - Calorie
R5 - Thousands of Dollars
R6 - Millions of Dollars
R7 - Billions of Dollars
R8 - Roentgen Equivalent in Man (REM)
R9 - Thousand Cubic Meters
RA - Rack
RB - Radian
RC - Rod (area) - 16.25 Square Yards
RD - Rod (length) - 5.5 Yards
RE - Reel
RG - Ring
RH - Running or Operating Hours
RK - Roll-Metric Measure
RL - Roll
RM - Ream
RN - Ream-Metric Measure
RO - Round
RP - Pounds per Ream
RS - Resets
RT - Revenue Ton Miles
RU - Run
S1 - Semester
S2 - Trimester
S3 - Square Feet per Second
S4 - Square Meters per Second
S5 - Sixty-fourths of an Inch
S6 - Sessions
S7 - Storage Units
S8 - Standard Advertising Units (SAUs)
S9 - Slip Sheet
SA - Sandwich
SB - Square Mile
SC - Square Centimeter
SD - Solid Pounds
SE - Section
SF - Square Foot
SG - Segment
SH - Sheet
SI - Square Inch
SJ - Sack
SK - Split Tanktruck
SL - Sleeve
SM - Square Meter
SN - Square Rod
SO - Spool
SP - Shelf Package
SQ - Square
SR - Strip
SS - Sheet-Metric Measure
ST - Set
SV - Skid
SW - Skein
SX - Shipment
SY - Square Yard
SZ - Syringe
T0 - Telecommunications Lines in Service
T1 - Thousand pounds gross
T2 - Thousandths of an Inch
T3 - Thousand Pieces
T4 - Thousand Bags
T5 - Thousand Casings
T6 - Thousand Gallons
T7 - Thousand Impressions
T8 - Thousand Linear Inches
T9 - Thousand Kilowatt Hours
TA - Tenth Cubic Foot
TB - Tube
TC - Truckload
TD - Therms
TE - Tote
TF - Ten Square Yards
TG - Gross Ton
TH - Thousand
TI - Thousand Square Inches
TJ - Thousand Sq. Centimeters

46-06 -- HAZMAT - Unit or Basis for Measurement Code (CONT)

Data Value - Definition
TK - Tank
TL - Thousand Feet (Linear)
TM - Thousand Feet (Board)
TN - Net Ton (2,000 LB).
TO - Troy Ounce
TP - Ten-pack
TQ - Thousand Feet
TR - Ten Square Feet
TS - Thousand Square Feet
TT - Thousand Linear Meters
TU - Thousand Linear Yards
TV - Thousand Kilograms
TW - Thousand Sheets
TX - Troy Pound
TY - Tray
TZ - Thousand Cubic Feet
U1 - Treatments
U2 - Tablet
U3 - Ten
U5 - Two Hundred Fifty
UA - Torr
UB - Telecommunications Lines in Service - Average
UC - Telecommunications Ports
UD - Tenth Minutes
UE - Tenth Hours
UF - Usage per Telecommunications Line - Average
UH - Ten Thousand Yards
UL - Unitless
UM - Million Units
UN - Unit
UP - Troche
UQ - Wafer
UR - Application
US - Dosage Form
UT - Inhalation
UU - Lozenge
UV - Percent Topical Only
UW - Milliequivalent
UX - Dram (Minim)
UY - Fifty Square Feet
UZ - Fifty Count
V1 - Flat
V2 - Pouch
VA - Volt-ampere per Kilogram
VC - Five Hundred
VI - Vial
VP - Percent Volume
VR - Volt-ampere-reactive
VS - Visit
W2 - Wet Kilo
WA - Watts per Kilogram
WB - Wet Pound
WD - Work Days
WE - Wet Ton
WG - Wine Gallon
WH - Wheel
WI - Weight per Square Inch
WK - Week
WM - Working Months
WP - Pennyweight
WR - Wrap
WW - Milliliters of Water
X1 - Chains (Land Survey)
X2 - Bunch
X3 - Clove
X4 - Drop
X5 - Head
X6 - Heart
X7 - Leaf
X8 - Loaf
X9 - Portion
XP - Base Box per Pound
Y1 - Slice
Y2 - Tablespoon
Y3 - Teaspoon
Y4 - Tub
YD - Yard
YL - 100 Lineal Yards

46-06 -- HAZMAT - Unit or Basis for Measurement Code (CONT)

Data Value - Definition
YR - Years YT - Ten Yards Z1 - Lift Van Z2 - Chest Z3 - Cask Z4 - Hogshead Z5 - Lug Z6 - Conference Points Z8 - Newspaper Agate Line ZA - Bimonthly ZB - Biweekly ZC - Semiannual ZP - Page ZZ - Mutually Defined

Section 9.0

ADDITIONAL INFORMATION FOR THE DEVELOPER

Programmers' Notes

This section describes two operating environments of the 304 Transaction Set. Further, it includes the mapping and looping logic the system developers need to follow as they build a 304.

OPERATING ENVIRONMENTS

This section presents two models for the electronic ocean shipping instructions business cycle—in-transit visibility (ITV) of DOD prime vendor shipments; and sending shipping instructions from a DOD shipper, such as a container consolidation point (CCP) to a carrier. (NOTE: These models may be implemented in whole or in part depending on the trading partners' readiness to participate.)

Prime Vendor Shipment ITV

For Vendor ITV shipments, the trading partners conduct business electronically as presented in the model in Figure 9.1.

Figure 9.1 – Vendor ITV Business Model

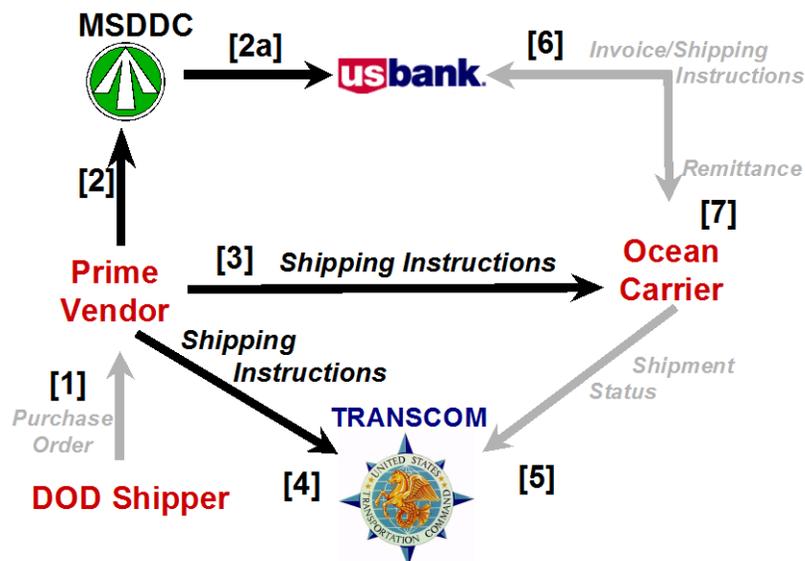


Table 9.1 describes these steps in detail.

Table 9.1 – Steps for Exchanging Vendor ITV Ocean Shipping Instructions.

<i>Step</i>	<i>Description</i>
[1]	<p>A subsistence customer (i.e., a DoD installation or an OCONUS prime vendor) submits a purchase order to the prime vendor. Procedures for conducting this exchange are already in place and do not need to be enumerated in this operating concept.</p> <p>The vendor submits a container-booking request to DSCP, which completes the booking and generates a Transportation Control and Movement Document (TCMD) for the vendor. Procedures for conducting this exchange are already in place and do not need to be enumerated in this operating concept. The vendor fills the customer’s order and packages the items for shipment. A USDA-certified veterinarian inspects the items and issues a compliance certificate. Upon completing the packing, loading the items on a conveyance, and performing a close door operation (or its equivalent), the vendor generates an electronic Ocean Shipping Instructions. Those shipping instructions are based on the guidelines established in the DoD Transportation EDI Convention, ASC X12 304 Shipping Instructions, version 4010. Following the close door operation, the vendor transmits the 304 transaction to electronic mailboxes for US Bank, the carrier, and GTN.</p>
[2]	MSDDC processes 304 from vendor, adding costing information as necessary. US Bank receives the 304 and uploads it to its PowerTrack system from reconciliation and payment of transportation invoices.
[3]	The carrier receives the 304 and uploads it to its billing system for manifesting and customs clearance processing. Further, it uses the 304 information to generate electronic invoices.
[4]	USTRANSCOM receives the 304, uploads it to its GTN database, and prepares to receive shipment status messages from the carrier.
[5]	The carrier generates an electronic 315 ocean shipment status message and transmits it to USTRANSCOM. Procedures for conducting this exchange are already in place and do not need to be enumerated in this operating concept.
[6]	The carrier generates an electronic 315 ocean shipment status message or a 310 ocean invoice and transmits it to US Bank. Procedures for conducting this exchange are already in place and do not need to be enumerated in this operating concept.
[7]	US Bank reconciles the electronic invoice with a corresponding 304 shipping instructions and generates a remittance notice that initiates carrier payment. Procedures for conducting this exchange are already in place and do not need to be enumerated in this operating concept.

This section presents the technical architecture and procedures for electronically exchanging data between the subsistence vendor, MSDDC, US Bank, the ocean carrier, and USTRANSCOM. Figure 9.2 illustrates the 14 steps in the model.

Figure 9.2 – Vendor ITV Technical Architecture

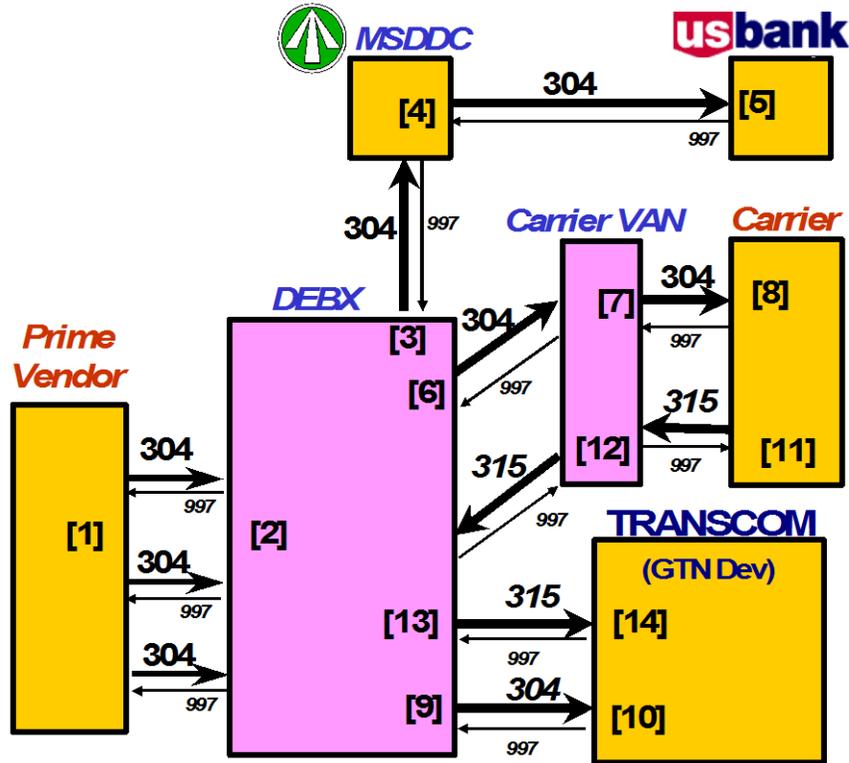


Table 9.2 describes these steps in detail.

Table 9.2 – Vendor ITV Technical Architecture

Step	Sending or Processing Trading Partner	Receiving Trading Partner or VAN	Trans Set	Description
[1]	Prime Vendor	DEBX	304	Prime vendor performs close-door and driver sign-off operations. After driver sign-off, vendor generates three 304 transaction sets (Shipping Instructions). It sends those interchanges to the Defense Electronic Business Exchange (DEBX).
[2]	DEBX	N/A	304	Upon receiving the three 304 interchanges, the DEBX prepares them to exchange them with MSDDC, the ocean carrier's value-added network (VAN), and USTRANSCOM.

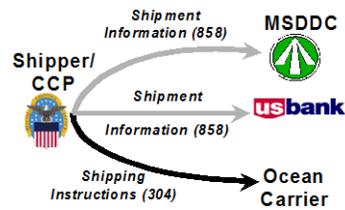
<i>Step</i>	<i>Sending or Processing Trading Partner</i>	<i>Receiving Trading Partner or VAN</i>	<i>Trans Set</i>	<i>Description</i>
[3]	DEBX	MSDDC	304	The DEBX forwards one 304 interchange to MSDDC.
[4]	MSDDC	USBank	304	Upon receiving the 304, MSDDC generates a 997 and returns it to the subsistence vendor via DEBX. Then, MSDDC processes the 304 through its costing system and adds pricing data to the 304. Then, it forwards the “costed” 304 to USBank.
[5]	US Bank	N/A	304	US Bank receives the 304 and processes it into its PowerTrack system for reconciliation and payment processing. Upon receiving the 304, US Bank’s translator generates a 997 functional acknowledgement and transmits back to DEBX.
[6]	DEBX	Carrier VAN	304	The DEBX forwards one 304 interchange to the carrier’s VAN.
[7]	Carrier VAN	Carrier	304	The VAN forwards the 304 to the carrier.
[8]	Carrier	N/A	304	The carrier receives the 304 from its VAN and processes it into its billing system. Upon receiving the 304, the carrier’s translator generates a 997 functional acknowledgement and transmits it back to the prime vendor.
[9]	DEBX	USTRANSCOM	304	The DEBX sends one 304 interchange to USTRANSCOM through the commercial Internet.
[10]	USTRANSCOM	N/A	304	USTRANSCOM receives the 304 and processes it into its GTN development database. The GTN translator generates a 997 functional acknowledgement, which DEBX pulls and forwards to the prime vendor.
[11]	Carrier	Carrier VAN	315	For each prime vendor shipment, the carrier generates a 315 status message and addresses the interchange envelope for the GTN development database. It sends that envelope to its VAN.
[12]	Carrier VAN	DEBX	315	The VAN forwards the 315 interchange to DEBX.
[13]	DEBX	USTRANSCOM	315	The DEBX converts all 315 interchanges to a user-defined file (UDF) format and pushes them to the GTN development database via secure copy protocol (SCP) through the commercial Internet.

<i>Step</i>	<i>Sending or Processing Trading Partner</i>	<i>Receiving Trading Partner or VAN</i>	<i>Trans Set</i>	<i>Description</i>
[14]	USTRANSCOM	N/A	315	USTRANSCOM processes the 315 UDF into its development database and reconciles them with 304 Shipping Instructions coming from the prime vendor. USTRANSCOM will generate a 997 for each 315 status message.

Shipping Instructions from CCP or Other Shipper

Figure 9.3 illustrates the operating environment in which a DOD shipper generates shipping instructions for the ocean carrier and other trading partners.

Figure 9.3 – CCP/Shipper Business Model



For ocean shipments booked directly with the ocean carrier, the shipper generates a 304 Shipping Instructions interchange and passes that transaction directly to the ocean carrier. For these shipments, the shipper also generates an ASC X12 858 Shipment Information interchange; it passes the 858 interchange to USBank’s PowerTrack for carrier payment and to MSDDC’s Worldwide Port System (WPS) for customs and in-transit data.

Figure 9.4 illustrates the technical architecture for exchanging shipping instructions from a DOD shipper.

Figure 9.4 – CCP/Shipper Technical Architecture

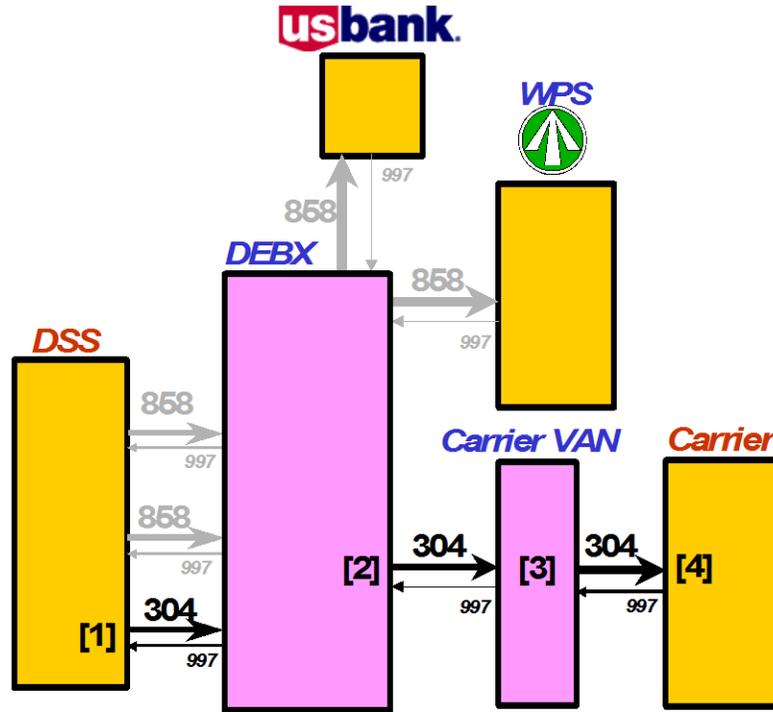


Table 9.3 describes these steps in further detail. (Procedures for exchanging the 858 shipment information are not addressed in this table.)

Table 9.3 - CCP/Shipper Shipping Instructions Technical Architecture

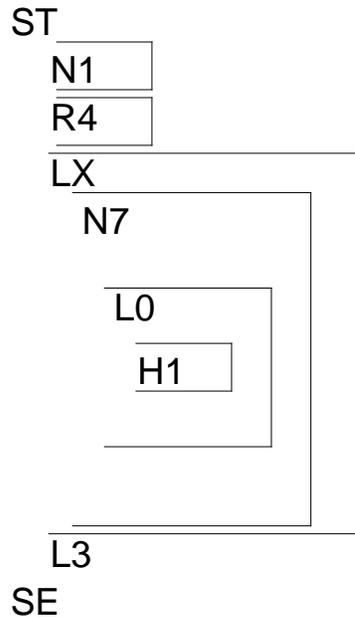
Step	Sending or Processing Trading Partner	Receiving Trading Partner or VAN	Trans Set	Description
[1]	DSS	DEBX	304	The CCP's Distribution Standard System (DSS) generates an electronic shipping instructions interchange based on the guidelines established in the DoD Transportation EDI Convention, ASC X12 304 Shipping Instructions, version 004010. DSS sends these interchanges to the DEBX.
[2]	DEBX	Carrier VAN	304	Upon receiving the 304, the DEBX forwards the 304 to the carrier's VAN.
[3]	Carrier VAN	Carrier	304	The carrier VAN receives the 304 from the DEBX and transmits it to the carrier.

<i>Step</i>	<i>Sending or Processing Trading Partner</i>	<i>Receiving Trading Partner or VAN</i>	<i>Trans Set</i>	<i>Description</i>
[4]	Carrier	N/A	304	The carrier receives the 304 from its VAN and processes it into its shipment/billing system. Upon receiving the 304, the carrier's translator generates a 997 functional acknowledgement and transmits it back to DSS.

Summary Mapping Logic

Figure 9.7 illustrates the basic schema of the 304. Within the 304 Transaction Set, there will be only one container, which may have many different commodities. The Ocean Transportation Industry Guide recommends four methods of identifying containers and commodities. The Department of Defense recommends Level IV visibility – where the actual container number is given along with detailed listing of each commodity within that container. Figure 9.4 shows the relationship between the LX, N7, L0 and L5 loops.

Figure 9.7 - Summary Mapping Logic



N1 loops contain the “Ship To,” “Origin,” “Shipper,” “Consignee,” and “Payer Entity” addresses.

R4 loops contain port and terminal information.

The LX loop includes container and commodity information. Its looping structure is further described in Figure 9.8.

The N7 describes a container. There is one 304 transaction per container. A container may contain multiple commodities.

L0 describes individual commodities. This loop may occur multiple times per line item.

Figure 9.8 – LX, N7 and L0 relationships

- LX Loop
 - N7 - Container number
 - L0 - Commodity one
 - L5
 - L0 - Commodity two
 - L5