



CP EDI 404 Guidelines for Carload Customers (Version 7010)





404 Rail Carrier Shipment Information

Functional Group ID=**SR**

Introduction:

This X12 Transaction Set contains the format and establishes the data contents of 404 bill of lading for use within the context of an Electronic Data Interchange (EDI) environment. The document is a modified version of X12 404 rail guidelines (v7010) that is accepted by CP. It is the initial tender of a shipment between shipper and Canadian Pacific Railway which contains general shipment details, specifics of railcar as well as carrier specific information. This document is used as a notification of equipment release and if multiple rail carriers are involved the information is passed on to the next rail carrier(s).

An EDI 997 Functional Acknowledgment will be sent for this transaction set. The document will not be processed further if rejected due to violation of X12 standards.

CP can also generate an 824 Application Acknowledgment reporting the acceptance or rejection of the bill of lading document by CP's application systems.

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



LOOP ID - E1			2
Not Used	1710	E1	Empty Car Disposition - Pended Destination Consignee
			O 1
Not Used	1720	E4	Empty Car Disposition - Pended Destination City
			M 1
Not Used	1730	E5	Empty Car Disposition - Pended Destination Route
			M 13
Not Used	1740	PI	Price Authority Identification
			O 1
O	1750	<u>GA</u>	Canadian Grain Information
			O 15
LOOP ID - REF			99
Not Used	1770	REF	Reference Information
			O 1
Not Used	1775	N9	Extended Reference Information
			O 10
Not Used	1780	N10	Quantity and Description
			O 15
Not Used	1781	SMD	Consolidated Shipment Manifest Data
			O 1
Not Used	1782	VC	Motor Vehicle Control
			O 36
LOOP ID - L0			25
Not Used	1783	L0	Line Item - Quantity and Weight
			O 1
Not Used	1784	MEA	Measurements
			O 3
Not Used	1786	L1	Rate and Charges
			O 10
LOOP ID - PI			30
Not Used	1788	PI	Price Authority Identification
			O 1
Not Used	1789	CD	Shipment Conditions
			O 10
LOOP ID - N1			15
Not Used	1790	N1	Party Identification
			O 1
Not Used	1800	N3	Party Location
			O 1
Not Used	1820	N4	Geographic Location
			O 1
Not Used	1825	PER	Administrative Communications Contact
			O 2
Not Used	1830	BL	Billing Information
			O 12
Not Used	1850	NA	Cross-Reference Equipment
			O 10
M	1900	<u>F9</u>	Origin Station
			M 1
M	2000	<u>D9</u>	Destination Station
			M 1
LOOP ID - N1			15
M	2100	<u>N1</u>	Party Identification
			M 1
Not Used	2150	N2	Additional Name Information
			O 2
Must Use	2200	<u>N3</u>	Party Location
			O 2
Must Use	2300	<u>N4</u>	Geographic Location
			O 1
O	2350	<u>REF</u>	Reference Information
			O 2
O	2400	<u>PER</u>	Administrative Communications Contact
			O 2
O	2520	<u>BL</u>	Billing Information
			O 12
LOOP ID - S1			12
Not Used	4300	S1	Stop-off Name
			O 1



Not Used	4400	S2	Stop-off Address	O	2	
Not Used	4480	S9	Stop-off Station	O	1	
Not Used	4490	N1	Party Identification	O	1	
Not Used	4500	N2	Additional Name Information	O	1	
Not Used	4510	N3	Party Location	O	1	
Not Used	4520	N4	Geographic Location	O	1	
Not Used	4530	PER	Administrative Communications Contact	O	1	
M	4600	<u>R2</u>	Route Information	M	13	
Not Used	4800	R9	Route Code Identification	O	1	
LOOP ID - E1					2	
Not Used	4900	E1	Empty Car Disposition - Pended Destination Consignee	O	1	
Not Used	5000	E4	Empty Car Disposition - Pended Destination City	M	1	
Not Used	5100	E5	Empty Car Disposition - Pended Destination Route	M	13	
Not Used	5110	PI	Price Authority Identification	O	1	
O	5200	<u>H3</u>	Special Handling Instructions	O	20	
O	5300	<u>PS</u>	Protective Service Instructions	O	5	
LOOP ID - LX					25	
M	5400	<u>LX</u>	Transaction Set Line Number	M	1	
M	5500	<u>L5</u>	Description, Marks and Numbers	M	15	
LOOP ID - L0					25	
Must Use	5700	<u>L0</u>	Line Item - Quantity and Weight	O	1	
Not Used	5750	MEA	Measurements	O	3	
Not Used	5800	L1	Rate and Charges	O	10	
LOOP ID - PI					30	
O	5900	<u>PI</u>	Price Authority Identification	O	1	
Not Used	5920	CD	Shipment Conditions	O	10	
O	6000	<u>X1</u>	Export License	O	6	
LOOP ID - T1					64	
Not Used	6100	T1	Transit Inbound Origin	O	1	
Not Used	6200	T2	Transit Inbound Lading	O	30	
Not Used	6300	T3	Transit Inbound Route	O	12	
Not Used	6400	T6	Transit Inbound Rates	O	1	
Not Used	6500	T8	Free-form Transit Data	O	99	
Not Used	6600	L3	Total Weight and Charges	O	1	
O	6700	<u>LS</u>	Loop Header	O	1	
LOOP ID - LH1					1000	
O	6800	<u>LH1</u>	Hazardous Identification Information	O	1	
O	6900	<u>LH2</u>	Hazardous Classification Information	O	4	n2



O	7000	<u>LH3</u>	Hazardous Material Shipping Name Information	O	10	
O	7100	<u>LFH</u>	Free-form Hazardous Material Information	O	20	
O	7200	<u>LEP</u>	EPA Required Data	O	3	
O	7300	<u>LH4</u>	Canadian Dangerous Requirements	O	4	
O	7400	<u>LHT</u>	Transborder Hazardous Requirements	O	3	
O	7500	<u>LHR</u>	Hazardous Material Identifying Reference Numbers	O	5	
O	7550	<u>PER</u>	Administrative Communications Contact	O	5	
LOOP ID - N1					10	
O	7560	<u>N1</u>	Party Identification	O	1	
O	7570	<u>N3</u>	Party Location	O	2	
O	7580	<u>N4</u>	Geographic Location	O	1	
O	7590	<u>PER</u>	Administrative Communications Contact	O	2	
O	7600	<u>LE</u>	Loop Trailer	O	1	
O	7700	<u>PER</u>	Administrative Communications Contact	O	5	
O	7800	<u>LH2</u>	Hazardous Classification Information	O	6	n3
O	7900	<u>LHR</u>	Hazardous Material Identifying Reference Numbers	O	1	
Rec	8000	<u>LH6</u>	Hazardous Certification	O	5	
O	8100	<u>XH</u>	Pro Forma - B13 Information	O	1	
O	8200	<u>X7</u>	Customs Information	O	10	
M	8400	<u>SE</u>	Transaction Set Trailer	M	1	



Segment: **ST** Transaction Set Header
 Position: 0100
 Loop:
 Level:
 Usage: Mandatory
 Max Use: 1
 Purpose: To indicate the start of a transaction set and to assign a control number
 Syntax Notes:
 Semantic Notes: 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:

Data Element Summary

CP	Ref.	Data			
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	ST01	143	Transaction Set Identifier Code	M	1 ID 3/3
			Code identifying a Transaction Set		
			404 Rail Carrier Shipment Information		
M	ST02	329	Transaction Set Control Number	M	1 AN 4/9
			Identifying control number that must be unique within the transaction set		
			functional group assigned by the originator for a transaction set		
Not Used	ST03	1705	Implementation Convention Reference	O	1 AN 1/35



Segment: **ZC1** Beginning Segment for Data Correction or Change
 Position: 0200
 Loop:
 Level:
 Usage: Optional (Recommended)
 Max Use: 1
 Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Syntax Notes:
 Semantic Notes: If ZC108 is "R" (Rail), then ZC102 is required.
 Comments: For any rail shipment, ZC102 and ZC103 are required.
 Notes: This segment is required when submitting EDI 404 correctors or cancellations to CP.

Data Element Summary

CP	Ref.	Data		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ZC101	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)	O 1 AN 1/30
M	ZC102	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number Must be identical to the previous shipping instructions. For multi-car shipments must be identical to the lead car of the previous shipping instructions.	O 1 AN 2/4
M	ZC103	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) Must be identical to the previous shipping instructions. For multi-car shipments must be identical to the lead car of the previous shipping instructions.	M 1 AN 1/15
M	ZC104	244	Transaction Reference Number Sender's assigned number for referenced transaction set Must be identical to the previous shipping instructions. Bill of Lading/Shipment number as previously transmitted in the N9 segment with code values of BM, BL, BN, CO, CR, OB, SI or WY.	M 1 AN 1/30
M	ZC105	243	Transaction Reference Date Date of referenced transaction set expressed in format CCYYMMDD where CC represents the first two digits of the calendar year Must be identical to the previous shipping instructions. Original date of Bill of Lading/Shipment number as previously transmitted in the N9 segment with code values of BM, BL, BN, CO, CR, OB, SI or WY.	M 1 DT 8/8
M	ZC106	202	Correction Indicator Code Code indicating that the transaction set contains information which corrects previous information CA Cancelled Bill CO Correction	M 1 ID 2/2



M	ZC107	140	Standard Carrier Alpha Code Code identifying the Standard Carrier Alpha Code CPRS SCAC code for Canadian Pacific Railway	M	1	ID 2/4
M	ZC108	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment R Rail X Intermodal (Piggyback)	M	1	ID 1/2
Not Used	ZC109	761	Equipment Number Check Digit	O	1	NO 1/1

Segment: **BX** General Shipment Information
 Position: 0300
 Loop:
 Level:
 Usage: Mandatory
 Max Use: 1
 Purpose: To transmit identification numbers and other basic shipment data
 Syntax Notes:
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data		Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BX01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M 1 ID 2/2
M	BX02	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment R Rail X Intermodal (Piggyback)	M 1 ID 1/2
M	BX03	146	Shipment Method of Payment Code Code identifying payment terms for transportation charges 11 Rule 11 Shipment CC Collect NC Service Freight, No Charge NR Non-Revenue PP Prepaid (by Seller)	M 1 ID 2/2
R	BX04	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)	O 1 AN 1/30
M	BX05	140	Standard Carrier Alpha Code Code identifying the Standard Carrier Alpha Code CPRS SCAC code for Canadian Pacific Railway	M 1 ID 2/4



M	BX06	188	Weight Unit Code Code specifying the weight unit E Metric Ton K Kilograms L Pounds	M	1	ID 1/1
M	BX07	147	Shipment Qualifier Code specifying relationship of this shipment with respect to other shipments given to the carrier at the same time 1 Master Bill for Empty Non-Revenue Equipment B Bill of Lading for Individual Shipment E Empty Equipment Billing (Non-Revenue) M Master Bill of Lading for Assembly, Distribution and Volume Shipment A bill of lading with multiple delivery locations S Submaster Bill of Lading for Volume Shipment A bill of lading for a full truckload shipment W Revenue Empty	M	1	ID 1/1
O	BX08	226	Section Seven Code Code indicating applicability of section seven option (if not transmitted assume not in effect) N Not in Effect S In Effect	O	1	ID 1/1
Not Used	BX09	195	Capacity Load Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
Not Used	BX10	160	Status Report Request Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
Not Used	BX11	501	Customs Documentation Handling Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/2
Not Used	BX12	199	Confidential Billing Request Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
O	BX13	714	Goods and Services Tax Reason Code Code identifying the reason for a 0% rated goods and services tax 1 Inbound Goods and Services Tax Declaration 2 Outbound Goods and Services Tax Declaration 3 Goods and Services Tax Inbound/Outbound Declaration Documentary Evidence Filed at Origin	O	1	ID 1/1
Not Used	BX14	346	Application Type Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/2



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

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
M	BNX01	460	Shipment Weight Code Code indicating the way by which weights are obtained for a particular shipment	M 1 ID 1/1
			A Shipper's Weight Agreement	
			M Manifest Weight	
			N No Wt. Req., Ship. Moving on Contract or per car rate	
			O Official Weight	
			R Carrier Scale Weight	
			S Shipper Certified Scale Weights	
			T Tariff Authorized Weight	
Not Used	BNX02	129	Referenced Pattern Identifier	O 1 AN 1/13
M	BNX03	11	Billing Code Code indicating type of Bill	M 1 ID 1/1
			E Storage	
			M Multiple Shipment Billing	
			S Single Shipment Billing	
			U Unit Train Billing	
Not Used	BNX04	223	Repetitive Pattern Number	O 1 NO 5/5



Segment: **M3** Release
 Position: 0500
 Loop:
 Level:
 Usage: Optional (Recommended)
 Max Use: 1
 Purpose: To indicate that the equipment is or is not to be released
 Syntax Notes:
 1 At least one of M302 or M303 is required.
 2 If M304 is present, then M303 is required.
 Semantic Notes:
 1 If M301 contains code value "S" or "R", then M302 is the date of release. If M301 contains code value "U", then M302 is the estimated date of release.
 2 M304 reflects the time zone which the time reflects.
 Comments:
 Notes: CP uses the information provided in this segment for billing purposes only. The date and time indicated in this segment is not used for release of equipment(s).

Data Element Summary

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



Segment: **N9** Extended Reference Information
 Position: 0600
 Loop:
 Level:
 Usage: Mandatory
 Max Use: 30
 Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
 Syntax Notes:
 1 At least one of N902 or N903 is required.
 2 If N906 is present, then N905 is required.
 3 If either C04003 or C04004 is present, then the other is required.
 4 If either C04005 or C04006 is present, then the other is required.
 Semantic Notes:
 1 N906 reflects the time zone which the time reflects.
 Comments:

Data Element Summary

CP	Ref.	Data			Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	N901	128	Reference Identification Qualifier		M 1 ID 2/3
			Code identifying the Reference Identification		
			09	Customs Bar Code Number	
			2K	Food and Drug Administration (FDA) Product Type	
			BL	Government Bill of Lading	
			BM	Bill of Lading Number	
			BN	Booking Number	
			CED	Canada Border Services Agency (CBSA) Export Declaration Number	
			CG	Consignee's Order Number	
			CN	Carrier's Reference Number (PRO/Invoice)	
			CO	Customer Order Number	
			CR	Customer Reference Number	
			CT	Contract Number	
			EB	Embargo Permit Number	
			ED	Export Declaration	
			EN	Embargo Number	
			EP	Export Permit Number	
			GB	Grain Block Number	
			GR	Grain Order Reference Number	
			GT	Goods and Service Tax Registration Number	
			HS	Harmonized Code System (Canada)	
			IB	In Bond Number	
			IL	Internal Order Number	
			ITN	Census Internal Transaction Number (ITN)	
			MB	Master Bill of Lading	



PN	Permit Number
PO	Purchase Order Number
SI	Shipper's Identifying Number for Shipment (SID) A unique number (to the shipper) assigned by the shipper to identify the shipment
SO	Shipper's Order (Invoice Number)
UT	Unit Train
WO	Work Order Number Number assigned for work including material and labor beyond normal work required to fulfill a service order
ZZ	Mutually Defined

This is not a comprehensive list and only includes some of the most commonly used Reference Identification Qualifiers.

M	N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	1	AN 1/80
O	N903	369	Free-form Description Free-form descriptive text	X	1	AN 1/45
O	N904	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O	1	DT 8/8
O	N905	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 DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X	1	TM 4/8
O	N906	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/2
Not Used	N907	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	1	
Not Used	C04001	128	Reference Identification Qualifier Code identifying the Reference Identification Refer to 007010 Data Element Dictionary for acceptable code values.	M		ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M		AN 1/80
Not Used	C04003	128	Reference Identification Qualifier Code identifying the Reference Identification Refer to 007010 Data Element Dictionary for acceptable code values.	X		ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X		AN 1/80



Not Used	C04005	128	Reference Identification Qualifier Code identifying the Reference Identification Refer to 007010 Data Element Dictionary for acceptable code values.	X	ID 2/3
Not Used	C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN 1/80

Segment: **DTM** Date/Time Reference
 Position: 0900
 Loop:
 Level:
 Usage: Optional (Recommended)
 Max Use: 5
 Purpose: To specify pertinent dates and times
 Syntax Notes:
 1 At least one of DTM02 DTM03 or DTM05 is required.
 2 If DTM04 is present, then DTM03 is required.
 3 If either DTM05 or DTM06 is present, then the other is required.
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data	Attributes		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time	M	1 ID 3/3
X	DTM02	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X	1 DT 8/8
X	DTM03	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 DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X	1 TM 4/8
O	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 007010 Data Element Dictionary for acceptable code values.	O	1 ID 2/2
X	DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format Refer to 007010 Data Element Dictionary for acceptable code values.	X	1 ID 2/3
X	DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X	1 AN 1/35



Segment: **N7** Equipment Details
 Position: 1000
 Loop: N7 Mandatory
 Level:
 Usage: Mandatory
 Max Use: 1
 Purpose: To identify the equipment
 Syntax Notes:
 1 If either N703 or N704 is present, then the other is required.
 2 If either N705 or N716 is present, then the other is required.
 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.

Data Element Summary

CP	Ref.	Data	Attributes	
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N701	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number	O 1 AN 1/4
M	N702	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	M 1 AN 1/15
X	N703	81	Weight Numeric value of weight	X 1 R 1/10
X	N704	187	Weight Qualifier Code specifying the type of weight A3 Shippers Weight E Estimated Net Weight G Gross Weight N Actual Net Weight	X 1 ID 1/2
O	N705	167	Tare Weight Weight of the equipment	X 1 N0 3/8
O	N706	232	Weight Allowance Allowance made for increased weight due to such factors as snow	O 1 N0 2/6
Not Used	N707	205	Dunnage	O 1 N0 1/6
Not Used	N708	183	Volume	X 1 R 1/8
Not Used	N709	184	Volume Unit Qualifier Refer to 007010 Data Element Dictionary for acceptable code values.	X 1 ID 1/1
Not Used	N710	102	Ownership Code Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
O	N711	40	Equipment Description Code Code identifying type of equipment used for shipment BG Bogie CA Caboose ID Idler Car OT Open-top/flatbed trailer	O 1 ID 2/2



- RR Rail Car
- SK Stack Car
- TK Trailer, Tank (Food Grade-Liquid)
- TN Tank Car

This is not a comprehensive list and only includes some of the most commonly used Equipment Description Codes.

O	N712	140	Standard Carrier Alpha Code Code identifying the Standard Carrier Alpha Code CPRS SCAC code for Canadian Pacific Railway	O	1	ID 2/4
Not Used	N713	319	Temperature Control	O	1	AN 3/6
Not Used	N714	219	Position	O	1	AN 1/3
O	N715	567	Equipment Length Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)	O	1	N0 4/5
O	N716	571	Tare Qualifier Code Code identifying the type of tare Refer to 007010 Data Element Dictionary for acceptable code values.	X	1	ID 1/1
Not Used	N717	188	Weight Unit Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
Not Used	N718	761	Equipment Number Check Digit	O	1	N0 1/1
Not Used	N719	56	Type of Service Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/2
O	N720	65	Height Vertical dimension of an object measured when the object is in the upright position	O	1	R 1/8
O	N721	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	O	1	R 1/8
Not Used	N722	24	Equipment Type Code	O	1	ID 4/4
Not Used	N723	140	Standard Carrier Alpha Code	O	1	ID 2/4
Not Used	N724	301	Car Type Code	O	1	ID 1/4



Segment: **VC** Motor Vehicle Control
 Position: 1100
 Loop: VC Optional
 Level:
 Usage: Optional
 Max Use: 1
 Purpose: To define motor vehicle identification and logistics
 Syntax Notes:
 Semantic Notes:
 1 VC05 is the automotive manufacturer route code.
 2 VC12 is the direction the headlights of the vehicle point.
 3 VC13 is the final destination ramp location as assigned by the manufacturer.
 Comments:
 Notes: Used by shippers of Automotive to report VIN level details.
 VIN numbers should be passed here and not as free-form description in the L502.

Data Element Summary

CP	Ref.	Data	Attributes	
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	VC01	539	Vehicle Identification Number Unique identification number stamped on the vehicle by the manufacturer	M 1 AN 1/30
	VC02	836	Vehicle Deck Position Code Code identifying the specific position of a vehicle on multi-level equipment; when dealing with rail cars the front end will be defined as that end of the rail car which the vehicle faces Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
R	VC03	837	Vehicle Type Code Code specifying the Vehicle Type Code for freight rate and claims purposes 1 Automobile 2 Truck 3 Others 4 Used Vehicles 5 Military	O 1 ID 1/1
O	VC04	838	Dealer Code A code assigned by a manufacturer to identify their dealers	O 1 AN 2/9
O	VC05	1	Route Code Mutually defined route code Auto Manufacturer's route code.	O 1 AN 1/13
Not Used	VC06	839	Bay Location	O 1 AN 1/6
Not Used	VC07	833	Automotive Manufacturers Code	O 1 ID 2/2
Not Used	VC08	308	Damage Exception Indicator Code Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
Not Used	VC09	835	Supplemental Inspection Code Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
O	VC10	583	Factory Car Order Number This number to be supplied by the shipper for Canadian customer requirements at border points for all finished motor vehicles exported to the United States from Canada	O 1 AN 6/10
Not Used	VC11	877	Vessel Stowage Location	O 1 AN 1/12



O	VC12	1543	Equipment Orientation Code Code indicating the direction the equipment is entrained or the lading is loaded; When used to indicate the lading orientation, direction is defined relative to the equipment on which it is loaded Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
O	VC13	310	Location Identifier Code which identifies a specific location Code designated by the manufacturer to identify the destination ramp.	O	1	AN 1/30

Segment: **N1** Party Identification
 Position: 1120
 Loop: N1 Optional
 Level:
 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:
 This N1 loop is used to identify mixed carloads of vehicles belonging to different manufacturers or private owners. These carloads may also be composed of vehicles with mixed IN-BOND or NOT IN-BOND status. The use of this loop can precisely identify the owner, payer and the IN-BOND status of each vehicle.
 Used to identify the owner or freight payer of the vehicle.
 This loop is used to identify parties associated with each vehicle.
 Legal Entity names (Railinc/DUN & BRADSTREET) must be provided.

Data Element Summary

CP	Ref.	Data	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>Attributes</u>
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual CN Consignee N1 Notify Party no. 1 OW Owner of Property or Unit PF Party to Receive Freight Bill UC Ultimate Consignee	M 1 ID 2/3
M	N102	93 Name Free-form name	X 1 AN 1/35
X	N103	66 Identification Code Qualifier Code specifying the system/method of code structure used for Identification Code (67)	X 1 ID 1/2



X	N104	67	Identification Code Code identifying a party or other code	X	1	AN 2/80
<p>When qualified by 'C5' this field should contain the full 13 character CIF format including leading zeros. This format is defined as either 9 character alphanumeric (CIF ID) or 9 digit numeric (DUNS number) plus the 4 digit sub-location number. When conveying a primary location the sub-location will be zeros. For example:</p> <p>'0123456780000' where DUNS=012345678 and the +4= 0000 'A22222220000' where CIF ID= A2222222 and the +4= 0000</p>						
Not Used	N105	706	Entity Relationship Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/2
Not Used	N106	98	Entity Identifier Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/3

Segment: **N3** Party Location
 Position: 1140
 Loop: N1 Optional
 Level:
 Usage: Optional
 Max Use: 2
 Purpose: To specify the location of the named party
 Syntax Notes:
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
M	N301	166	Address Information Address information	M 1 AN 1/55
	N302	166	Address Information Address information	O 1 AN 1/55



Segment: **N4** Geographic Location
 Position: 1160
 Loop: N1 Optional
 Level:
 Usage: Optional
 Max Use: 1
 Purpose: To specify the geographic place of the named party
 Syntax Notes:
 1 Only one of N402 or N407 may be present.
 2 Only one of N403 or N408 may be present.
 3 If N406 is present, then N405 is required.
 4 If N407 is present, then N404 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 N403 contains the postal code in an unstructured format. N408 contains the postal code in a structured format. When a postal code data field is used, the parties shall agree as to which data element (N403 or N408) shall be used in the transaction set.

Data Element Summary

CP	Ref.	Data	Attributes		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	N401	19	City Name Free-form text for city name	O	1 AN 2/30
M	N402	156	State or Province Code Code specifying the Standard State/Province as defined by appropriate government agency	X	1 ID 2/2
M	N403	116	Postal Code Code specifying international postal zone code excluding punctuation and blanks (zip code for United States)	X	1 ID 3/15
R	N404	26	Country Code Code identifying the country	X	1 ID 2/3
Not Used	N405	309	Location Qualifier Refer to 007010 Data Element Dictionary for acceptable code values.	X	1 ID 1/2
Not Used	N406	310	Location Identifier	O	1 AN 1/30
Not Used	N407	1715	Country Subdivision Code	X	1 ID 1/3
Not Used	N408	1702	Postal Code-Formatted	X	1 AN 3/20



Segment: **H3** Special Handling Instructions
 Position: 1180
 Loop: N1 Optional
 Level:
 Usage: Optional
 Max Use: 1
 Purpose: To specify special handling instructions in coded or free-form format
 Syntax Notes:
 Semantic Notes:
 Comments:
 Notes:

Used to specify the IN-BOND status of the vehicle.
 Only one occurrence per vehicle is allowed.

Data Element Summary

CP	Ref.	Data	Attributes	
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
O	H301	152	Special Handling Code Code specifying special transportation handling instructions	X 1 ID 2/3
			IB In-bond	
			NH Do Not Hump	
Not Used	H302	153	Special Handling Description	X 1 AN 2/30
Not Used	H303	241	Protective Service Code Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/4
Not Used	H304	242	Vent Instruction Code Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/7
Not Used	H305	257	Tariff Application Code Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1



Segment: **M7** Seal Numbers
 Position: 1300
 Loop: N7 Mandatory
 Level:
 Usage: Optional (Recommended)
 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:

A 'Cone Seal' is indicated by "HV" in the IM02. A 'Red Ball' customs seal is indicated by the presence of an M12 segment.
 For Seal Numbers that exceed the 15 character field length, the last 15 characters of the seal number will be used.

Data Element Summary

CP	Ref.	Data			Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	M701	225	Seal Number		M 1 AN 2/15
			Unique number on seal used to close a shipment		
O	M702	225	Seal Number		O 1 AN 2/15
			Unique number on seal used to close a shipment		
O	M703	225	Seal Number		O 1 AN 2/15
			Unique number on seal used to close a shipment		
O	M704	225	Seal Number		O 1 AN 2/15
			Unique number on seal used to close a shipment		
Not Used	M705	98	Entity Identifier Code		O 1 ID 2/3
			Refer to 007010 Data Element Dictionary for acceptable code values.		



Segment: **M12** In-bond Identifying Information
 Position: 1700
 Loop: N7 Mandatory
 Level:
 Usage: Optional
 Max Use: 2
 Purpose: To transmit in-bond information
 Syntax Notes:
 1 Only one of M1202 or M1206 may be present.
 2 If M1206 is present, then M1208 is required.
 3 If either M1208 or M1209 is present, then the other is required.
 4 If either M1210 or M1211 is present, then the other is required.
 Semantic Notes:
 1 M1203 is a four-digit numeric census schedule D when identifying a U.S. port, and a three-digit numeric memorandum D when identifying a Canadian port. It is the port of destination if M1201 is "61". It is the port of export if M1201 is "62" or "63".
 2 M1204 is five-digit numeric census schedule K. It is the foreign port of destination if M1201 is "62" or "63".
 3 M1207 identifies the carrier to whom liability is transferred.
 Comments:
 1 If M1202 does not contain the paperless entry number, then M1206 is required.
 2 M1205 is the value in whole dollars of the in-bond movement. Use twenty dollars per kilo if value is unknown.
 Notes:
 This segment is mandatory for all rail in-bond shipments. If while the shipment is still in-transit the carrier handling the shipment receives notification of customs release and the cargo is no longer in-bond that carrier should generate a waybill correction without the M12 segment.
 M1206 contains the conventional In-bond number.

Data Element Summary

CP	Ref.	Data		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	M1201	581	Customs Entry Type Code	M 1 ID 2/3
			Code specifying the type of entry assigned by U.S. Customs and Border Protection (CBP)	
			61	Immediate Transportation Imported to U.S.
			62	Transportation Exportation Imported and final destination is outside the U.S.
			63	Immediate Exportation Imported to U.S and Export from the U.S with no in-transit movement
			69	Transit This signifies U.S - CANADA - U.S movements
			70	Multi-Transit This signifies traffic with multiple U.S. border crossings with the shipment terminating in the U.S.
			A2	Rail In-bond - No Carrier Remanifest If used, M1208 must equal 'XC'
			A6	Ocean In-bond - No Carrier Remanifest If used, M1208 must equal 'XC'



			A8	Truck In-bond - Carrier Remanifest If used, M1208 must equal 'XC'			
			DP	Duty Paid - Cleared Customs If used, M1208 must equal 'XC'			
X	M1202	601	Customs Entry Number Automated Commercial System Code Furnished by U.S. Customs Service and Border Protection (CBP) Carriers authorized to participate in Paperless In-bond will be assigned a 3-position filer identification code. This code is used with a check digit routine to create a paperless In-bond number. Check digit routine is defined by U.S. Customs CAMIR document. The resulting format should contain 'V' with a 10 character identifier (i.e. VXXNNNNNNN where X are alpha-numeric and N are numeric values).	X	1	AN	1/50
O	M1203	310	Location Identifier Code which identifies a specific location This is the port of destination if M1201 is '61'. It is the port of export if M1201 is '62' or '63'. It is the first U.S. physical port of re-entry if M1201 is '69' or '70'.	O	1	AN	1/30
O	M1204	310	Location Identifier Code which identifies a specific location This is the foreign port of destination if M1201 is '62' or '63'.	O	1	AN	1/30
O	M1205	602	Customs Shipment Value Customs value in whole dollars Represents the total of all X111's plus XH04 for shipments intended to move In-bond into the U.S. Required for U.S bonds.	O	1	AN	2/8
X	M1206	603	In-bond Control Number Currently assigned control number for in-bond movement If used, should contain the 9 character numeric conventional in-bond number.	X	1	AN	1/50
O	M1207	140	Standard Carrier Alpha Code Code identifying the Standard Carrier Alpha Code	O	1	ID	2/4
X	M1208	128	Reference Identification Qualifier Code identifying the Reference Identification	X	1	ID	2/3
			BI	Bonded Carrier Internal Revenue Service Identification Number Only used for Railroad bond.			
			S4	Shippers Bond Number Number differentiating between shipper's bond movements by intermodal shippers and ocean carriers and in-bond movements which default to the carrier's bond Identifies a non-rail carrier bond.			
			XC	Cargo Control Number Used if M1201 is A2, A6, A8 or DP.			



X	M1209	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Contains the IRS number or Standard Carrier Alpha Code (SCAC) of the bond holder identified in M1208 for codes 'BI' and 'S4'. If used for Canadian In-Bond reporting, this will contain the Cargo Control Number (CCN).	X	1	AN 1/80
X	M1210	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment S Ocean	X	1	ID 1/2
X	M1211	182	Vessel Name Name of ship as documented in "Lloyd's Register of Ships" Vessel to be loaded for export, if known.	X	1	AN 2/28
Not Used	M1212	1073	Yes/No Condition or Response Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
Not Used	M1213	373	Date	O	1	DT 8/8
Not Used	M1214	310	Location Identifier	O	1	AN 1/30

Segment: **GA** Canadian Grain Information

Position: 1750

Loop: N7 Mandatory

Level:

Usage: Optional

Max Use: 15

Purpose: To transmit the transportation and distribution requirements of grain at Canadian ports

Syntax Notes: 1 If either GA04 or GA05 is present, then the other is required.

2 If either GA14 or GA15 is present, then the other is required.

3 If either GA16 or GA17 is present, then the other is required.

Semantic Notes: 1 GA02 is required on the first occurrence of the segment and for each new occurrence of a different commodity code.

2 GA06 is used for crop week.

3 GA08 is used for the unload date.

4 GA09 will contain the number of cars being claimed for incentive rate.

5 If GA13 is equal to "Y" then this is a direct hit to departure wharf for vessel loading. If "N" this is to be unloaded at terminal and GA14 is required to identify the terminal or staging area prior to vessel loading.

6 GA14 is the terminal or staging area name.

7 GA18 indicates whether a Canadian Wheat Board Performance car is involved. If GA18 is equal to "Y", then this indicates a Performance Car is involved. If GA18 is equal to "N" a Performance car is not involved. The default value is "N" if absent.

Comments: 1 GA02 contains the Canadian Grain Commission Commodity Code for terminal elevator accounting.

2 GA05 is used for grain block number.

Notes: At least one occurrence of GA04 is required with the code value GR.



Data Element Summary

<u>CP Attributes</u>	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
O	GA01	1275	Fumigated/Cleaned Indicator Code Code indicating whether product has been fumigated and/or cleaned Default value is 'N'. Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
O	GA02	22	Commodity Code Code describing a commodity or group of commodities Will contain the Canadian Grain Commission Commodity Code for terminal elevator and will be required for each new occurrence of a different grain or grain order. Code Source is Canadian Grain Commission Grain Code 435.	O 1 AN 1/30
O	GA03	1576	Inspected/Weighed Indicator Code Code indicating whether product has been inspected and/or weighed If GA03 is IW or IB, then CGC Certified weight is required in N703. N704 should be actual net weight, Code N. If not present, then shipment is neither inspected nor weighed. Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/2
X	GA04	128	Reference Identification Qualifier Code identifying the Reference Identification BO Bin Location Number CW Canadian Wheat Board Permit Number DK Dock Number Used for Platform number (Producer/Dealer Authorization number). EP Export Permit Number GB Grain Block Number GR Grain Order Reference Number OH Origin House Origin House for Canadian Wheat Board PN Permit Number RB Rate code number Used for incentive grain, multi-car block qualifier. RN Run Number Used for Canadian Wheat Board Train Run qualifier. XO Sample Number Grain company sample number. Sample number for grain company test weight of grain as appears in GA16 and GA17. ZT Milling in Transit	X 1 ID 2/3
X	GA05	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/80
O	GA06	642	Week Week expressed as year/week (CCYYWW), where week is a number between 01 and 53 inclusive	O 1 N0 6/6



O	GA07	899	Unload Terminal Elevator Code Code specifying the unloading terminal elevator at grain exporting terminals Code Source is Canadian Grain Commission Grain Code 435.	O	1	ID 3/4
O	GA08	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O	1	DT 8/8
O	GA09	1470	Number A generic number	O	1	NO 1/9
O	GA10	1276	Machine Separable Indicator Code Code specifying the Canadian Grain Commission code identifying the type of grain that must be separated Indicator code is the first two digits of the Grain Code.	O	1	ID 2/2
O	GA11	1277	Canadian Wheat Board (CWB) Marketing Class Code Code identifying the Canadian Wheat Board market class of the grain Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
O	GA12	1278	Canadian Wheat Board (CWB) Marketing Class Type Code Code identifying Canadian Wheat Board market class type Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
O	GA13	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
X	GA14	310	Location Identifier Code which identifies a specific location	X	1	AN 1/30
X	GA15	156	State or Province Code Code specifying the Standard State/Province as defined by appropriate government agency	X	1	ID 2/2
X	GA16	1004	Percent Qualifier Code specifying the percent qualifier SD Moisture Content SE Protein Content SF Percent Dockage Percentage of Grain Filler SG Test Weight Test Weight of Grain	X	1	ID 1/2
X	GA17	954	Percentage as Decimal Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)	X	1	R 1/10
Not Used	GA18	1073	Yes/No Condition or Response Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1



Segment: **F9** Origin Station
 Position: 1900
 Loop:
 Level:
 Usage: Mandatory
 Max Use: 1
 Purpose: To identify the rail origin of the shipment
 Syntax Notes: If either F906 or F907 is present, then the other is required.
 Semantic Notes: 1 F902 is the origin station for movement.
 2 F904 is the country code for the city named in the F902.
 3 F908 is the Standard Point Location Code (SPLC) for the city named in the F902.
 Comments: F905 is the freight station accounting code of the city named in F906.

Data Element Summary

CP	Ref.	Data			
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	F901	573	Freight Station Accounting Code	O	1 ID 1/5
			Code specifying the Freight Station Accounting code assigned for AAR		
			Managed Codes for Locations		
M	F902	19	City Name	M	1 AN 2/19
			Free-form text for city name		
			Contains station name as defined by the AAR Centralized Station Master.		
M	F903	156	State or Province Code	M	1 ID 2/2
			Code specifying the Standard State/Province as defined by appropriate		
			government agency		
Rec	F904	26	Country Code	O	1 ID 2/3
			Code identifying the country		
Not Used	F905	573	Freight Station Accounting Code	O	1 ID 1/5
Not Used	F906	19	City Name	X	1 AN 2/30
Not Used	F907	156	State or Province Code	X	1 ID 2/2
O	F908	154	Standard Point Location Code	O	1 ID 6/9
			Code specifying the Standard Point Location code defined by National Motor		
			Freight Tariff Association (NMFTA) or the Canadian Transportation Agency		
			(CTA) point development group as the official code assigned to a city or point		
			(for ratemaking purposes) within a city		
			SPLC for station mentioned in the F902 .		
Not Used	F909	116	Postal Code	O	1 ID 3/15
Not Used	F910	154	Standard Point Location Code	O	1 ID 6/9
Not Used	F911	116	Postal Code	O	1 ID 3/15
Not Used	F912	26	Country Code	O	1 ID 2/3



Segment: **D9** Destination Station
 Position: 2000
 Loop:
 Level:
 Usage: Mandatory
 Max Use: 1
 Purpose: To identify the rail destination of the shipment
 Syntax Notes: 1 If either D906 or D907 is present, then the other is required.
 Semantic Notes: 1 D902 is the destination station of movement.
 2 D904 is the country code for the city named in the D902.
 3 D905 is the freight station accounting code of the destination junction settlement carrier.
 4 D908 is the Standard Point Location Code (SPLC) for the city named in the D902.
 5 D909 is the postal code for the city names in the D902.
 6 D910 is the Standard Point Location Code (SPLC) for the city named in the D906.
 7 D911 is the postal code for the city named in the D906.
 8 D912 is the country code for the city named in the D906.
 Comments: 1 D905 is the freight station accounting code of the city name in D906.

Data Element Summary

CP	Ref.	Data	Attributes		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	D901	573	Freight Station Accounting Code Code specifying the Freight Station Accounting code assigned for AAR Managed Codes for Locations	O	1 ID 1/5
M	D902	19	City Name Free-form text for city name	M	1 AN 2/30
M	D903	156	State or Province Code Code specifying the Standard State/Province as defined by appropriate government agency	M	1 ID 2/2
Rec	D904	26	Country Code Code identifying the country	O	1 ID 2/3
Not Used	D905	573	Freight Station Accounting Code	O	1 ID 1/5
Not Used	D906	19	City Name	X	1 AN 2/30
Not Used	D907	156	State or Province Code	X	1 ID 2/2
O	D908	154	Standard Point Location Code Code specifying the Standard Point Location code defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city SPLC for station mentioned in the D902.	O	1 ID 6/9
Not Used	D909	116	Postal Code	O	1 ID 3/15
Not Used	D910	154	Standard Point Location Code	O	1 ID 6/9
Not Used	D911	116	Postal Code	O	1 ID 3/15
Not Used	D912	26	Country Code	O	1 ID 2/3



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

Semantic Notes:

Comments: This segment, used alone, provides the most efficient method of providing organizational identification.

Notes: Shipper, consignee and payer of freight parties are mandatory on revenue moves. Legal Entity names (Railinc/DUN & BRADSTREET) must be provided.

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M 1 ID 2/3
		11	Party to be billed(AAR Accounting Rule 11) Must be provided on Rule 11 shipments.	
		BN	Beneficial Owner	
		C1	In Care Of Party no. 1	
		CN	Consignee	
		FW	Forwarder	
		IM	Importer	
		N1	Notify Party no. 1	
		PF	Party to Receive Freight Bill Must be provided on revenue moves.	
		PU	Party at Pickup Location	
		SH	Shipper	
		UC	Ultimate Consignee	
		XQ	Canadian Customs Broker	
		XR	Mexican Customs Broker	
		XU	United States Customs Broker	
			This is not a comprehensive list and only includes some of the most commonly used Entity Identifier Codes.	
M	N102	93	Name Free-form name	X 1 AN 1/35



X	N103	66	Identification Code Qualifier Code specifying the system/method of code structure used for Identification Code (67) Refer to 007010 Data Element Dictionary for acceptable code values.	X	1	ID 1/2
X	N104	67	Identification Code Code identifying a party or other code	X	1	AN 2/80
Not Used	N105	706	Entity Relationship Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/2
Not Used	N106	98	Entity Identifier Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/3

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

Data Element Summary

CP	Ref.	Data		Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N301	166	Address Information Address information	M 1 AN 1/55
O	N302	166	Address Information Address information	O 1 AN 1/55



Segment:	N4 Geographic Location
Position:	2300
Loop:	N1 Mandatory
Level:	
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To specify the geographic place of the named party
Syntax Notes:	1 Only one of N402 or N407 may be present. 2 Only one of N403 or N408 may be present.
Semantic Notes:	
Comments:	1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location. 2 N403 contains the postal code in an unstructured format.

Data Element Summary

CP	Ref.	Data	Attributes		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	N401	19	City Name Free-form text for city name	O	1 AN 2/30
M	N402	156	State or Province Code Code specifying the Standard State/Province as defined by appropriate government agency	X	1 ID 2/2
M	N403	116	Postal Code Code specifying international postal zone code excluding punctuation and blanks (zip code for United States)	X	1 ID 3/15
Rec	N404	26	Country Code Code identifying the country	X	1 ID 2/3
Not Used	N405	309	Location Qualifier Refer to 007010 Data Element Dictionary for acceptable code values.	X	1 ID 1/2
Not Used	N406	310	Location Identifier	O	1 AN 1/30
Not Used	N407	1715	Country Subdivision Code	X	1 ID 1/3
Not Used	N408	1702	Postal Code-Formatted	X	1 AN 3/20



Segment: **REF** Reference Information
 Position: 2350
 Loop: N1 Mandatory
 Level:
 Usage: Optional
 Max Use: 2
 Purpose: To specify identifying information
 Syntax Notes: At least one of REF02 or REF03 is required.
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
M	REF01	128	Reference Identification Qualifier Code identifying the Reference Identification Refer to 007010 Data Element Dictionary for acceptable code values.	M 1 ID 2/3
X	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/80
X	REF03	352	Description A free-form description to clarify the related data elements and their content	X 1 AN 1/80
Not Used	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O 1
Not Used	C04001	128	Reference Identification Qualifier Code identifying the Reference Identification Refer to 007010 Data Element Dictionary for acceptable code values.	M ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/80
Not Used	C04003	128	Reference Identification Qualifier Code identifying the Reference Identification Refer to 007010 Data Element Dictionary for acceptable code values.	X ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/80
Not Used	C04005	128	Reference Identification Qualifier Code identifying the Reference Identification Refer to 007010 Data Element Dictionary for acceptable code values.	X ID 2/3
Not Used	C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/80



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

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

Semantic Notes:

Comments:

Notes: If PER05 or PER06 is present, then PER03 or PER04 is required.

Data Element Summary

CP	Ref.	Data	Attributes	
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named Refer to 007010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
O	PER02	93	Name Free-form name	O 1 AN 1/35
X	PER03	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	X 1 ID 2/2
X	PER04	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/80
X	PER05	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	X 1 ID 2/2
X	PER06	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/80
X	PER07	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	X 1 ID 2/2



X	PER08	364	Communication Number Complete communications number including country or area code when applicable	X	1	AN 1/80
Not Used	PER09	443	Contact Inquiry Reference	O	1	AN 1/20

Segment: **BL** Billing Information
 Position: 2520
 Loop: N1 Mandatory
 Level:
 Usage: Optional
 Max Use: 12
 Purpose: To identify the individual billing segments within a movement when joint rail rates have been established between carriers but do not cover the entire movement

- Syntax Notes:
- 1 At least one of BL02 or BL05 is required.
 - 2 At least one of BL03 or BL09 is required.
 - 3 If BL06 is present, then BL05 is required.
 - 4 If BL10 is present, then BL09 is required.

- Semantic Notes:
- 1 BL02 is the FSAC for the origin point of the rate for this portion of this movement.
 - 2 BL03 is the FSAC for the destination point of the rate for this portion of the movement.
 - 3 BL04 is the Standard Point Location Code (SPLC) for the origin point of the rate for this portion of the movement.
 - 4 BL05 through BL07 is the city, state, and country for the rate for the beginning portion of the move.
 - 5 BL08 is the Standard Point Location Code (SPLC) for the destination point of the rate for this portion of the move.
 - 6 BL09 through BL11 is the city, state, and country for the rate for ending portion of the move.
 - 7 BL12 is the Standard Carrier Alpha Code (SCAC) of the first carrier participating in the rate for the move defined in BL02 through BL11.

Comments:

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
M	BL01	747	Rebill Reason Code Code identifying reason for rebill RC R11 Collect Beyond RD R11 Prepaid Beyond	M 1 ID 2/2
X	BL02	573	Freight Station Accounting Code Code specifying the Freight Station Accounting code assigned for AAR Managed Codes for Locations	X 1 ID 1/5
X	BL03	573	Freight Station Accounting Code Code specifying the Freight Station Accounting code assigned for AAR Managed Codes for Locations	X 1 ID 1/5



O	BL04	154	Standard Point Location Code Code specifying the Standard Point Location code defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O	1	ID 6/9
X	BL05	19	City Name Free-form text for city name	X	1	AN 2/30
O	BL06	156	State or Province Code Code specifying the Standard State/Province as defined by appropriate government agency	O	1	ID 2/2
Not Used	BL07	26	Country Code	O	1	ID 2/3
Not Used	BL08	154	Standard Point Location Code	O	1	ID 6/9
X	BL09	19	City Name Free-form text for city name	X	1	AN 2/30
O	BL10	156	State or Province Code Code specifying the Standard State/Province as defined by appropriate government agency	O	1	ID 2/2
O	BL11	26	Country Code Code identifying the country	O	1	ID 2/3
O	BL12	140	Standard Carrier Alpha Code Code identifying the Standard Carrier Alpha Code	O	1	ID 2/4
O	BL13	140	Standard Carrier Alpha Code Code identifying the Standard Carrier Alpha Code	O	1	ID 2/4
Not Used	BL14	140	Standard Carrier Alpha Code	O	1	ID 2/4
Not Used	BL15	140	Standard Carrier Alpha Code	O	1	ID 2/4
Not Used	BL16	140	Standard Carrier Alpha Code	O	1	ID 2/4
Not Used	BL17	140	Standard Carrier Alpha Code	O	1	ID 2/4



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

Each set of shipment information must include at least one R2 segment (route information).
 Where more than one R2 segment is applicable, each iteration of the R2 segment must be sent in the order in which they occur in the transportation process.
 When including interline city names, the AAR Rule 260 abbreviations should be used. At least one occurrence of the R2 is required with a value of 'A', 'S', or 'R' in the R202.

Data Element Summary

CP	Ref.	Data		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	R201	140	Standard Carrier Alpha Code Code identifying the Standard Carrier Alpha Code CPRS SCAC for Canadian Pacific Railway	M 1 ID 2/4
M	R202	133	Routing Sequence Code Code specifying the relationship of a carrier to a specific shipment movement 1 1st Carrier after Origin Carrier 2 2nd Carrier after Origin Carrier 3 3rd Carrier after Origin Carrier 4 4th Carrier after Origin Carrier 5 5th Carrier after Origin Carrier 6 6th Carrier after Origin Carrier D DELY (Delivery Switch Carrier) I Origin Switch Carrier R Origin Carrier, Rule 11 Shipment S Origin Carrier, Shipper's Routing (Rail)	M 1 ID 1/2
O	R203	19	City Name Free-form text for city name Contains Rule 260 Abbreviation only.	O 1 AN 2/5
O	R204	154	Standard Point Location Code Code specifying the Standard Point Location code defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O 1 ID 6/9



Not Used	R205	177	Intermodal Service Code	O	1	ID 1/2
O	R206	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment	O	1	ID 1/2
			R Rail			
Not Used	R207	296	Intermediate Switch Carrier Code	X	1	ID 2/4
Not Used	R208	296	Intermediate Switch Carrier Code	O	1	ID 2/4
Not Used	R209	76	Invoice Number	O	1	AN 1/22
Not Used	R210	373	Date	O	1	DT 8/8
Not Used	R211	369	Free-form Description	O	1	AN 1/45
Not Used	R212	56	Type of Service Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/2
Not Used	R213	742	Route Description	O	1	AN 1/35

Segment: **H3** Special Handling Instructions
 Position: 5200
 Loop:
 Level:
 Usage: Optional
 Max Use: 20
 Purpose: To specify special handling instructions in coded or free-form format
 Syntax Notes:
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
X	H301	152	Special Handling Code Code specifying special transportation handling instructions	X 1 ID 2/3
			HR Home for Repair	
			HW High Wide Load	
			IB In-bond	
			IP Import Shipment	
			NH Do Not Hump	
			OV Overweight	
			SH Shiftable Load	
			SR Speed Restricted	
			SRG Storage	
			Service for freight held in carrier's possession beyond free time for any reason not the fault of the carrier	
			XP Export	

This is not a comprehensive list and only includes some of the most commonly used Special Handling Codes.



Not Used	H302	153	Special Handling Description	X	1	AN 2/30
Not Used	H303	241	Protective Service Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/4
Not Used	H304	242	Vent Instruction Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/7
Not Used	H305	257	Tariff Application Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1

Segment: **PS** Protective Service Instructions
 Position: 5300
 Loop:
 Level:
 Usage: Optional
 Max Use: 5
 Purpose: To specify mechanical protective service and ventilation instructions
 Syntax Notes: 1 If PS03 is present, then at least one of PS04 or PS14 is required.
 2 If PS04 is present, then PS03 is required.
 Semantic Notes: 1 PS03 qualifies the temperature in PS04 and PS14.
 2 PS04 is the optimum allowable temperature condition for shipment.
 Comments:

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
M	PS01	746	Protective Service Rule Code Code specifying the Association of American Railroads (AAR) Protective Service that applies to shipment	M 1 ID 3/9
M	PS02	241	Protective Service Code Code specifying perishable protective service- rail carriers only M Standard Mechanical Protective Service	M 1 ID 1/4
X	PS03	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 007010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2



X	PS04	408	Temperature Temperature Temperature in Fahrenheit only.	X	1	R 1/4
Not Used	PS05	140	Standard Carrier Alpha Code	O	1	ID 2/4
Not Used	PS06	573	Freight Station Accounting Code	O	1	ID 1/5
Not Used	PS07	19	City Name	O	1	AN 2/30
Not Used	PS08	156	State or Province Code	O	1	ID 2/2
Not Used	PS09	81	Weight	O	1	R 1/10
Not Used	PS10	745	Pre-Cooled (Rule 710) Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
Not Used	PS11	1073	Yes/No Condition or Response Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
Not Used	PS12	1073	Yes/No Condition or Response Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
Not Used	PS13	1073	Yes/No Condition or Response Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
Not Used	PS14	408	Temperature	X	1	R 1/4

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

Data Element Summary

CP	Ref.	Data		Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	LX01	554	Assigned Number Number assigned for differentiation within a transaction set	M 1 NO 1/6



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

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

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

Data Element Summary

CP	Ref.	Data	Attributes	
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	L501	213	Lading Line Item Number Sequential line number for a lading item	O 1 NO 1/6
O	L502	79	Lading Description Description of an item as required for rating and billing purposes To be used to provide the commodity description only.	O 1 AN 1/50
M	L503	22	Commodity Code Code describing a commodity or group of commodities STCC Code(s)	X 1 AN 1/30
Rec	L504	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code 3 Empty Non-hazardous Last Contained (HMRC) Code L Last Contained Contents STCC T Standard Transportation Commodity Code (STCC)	X 1 ID 1/1
Not Used	L505	103	Packaging Code Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 AN 3/5
Not Used	L506	87	Marks and Numbers	X 1 AN 1/48
Not Used	L507	88	Marks and Numbers Qualifier Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/2
X	L508	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code T Standard Transportation Commodity Code (STCC)	X 1 ID 1/1
X	L509	22	Commodity Code Code describing a commodity or group of commodities Used to pass rating STCC for hazardous materials.	X 1 AN 1/30
O	L510	595	Compartment ID Code Code identifying the compartment in a compartmentalized tank car	O 1 ID 1/1



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

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

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

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

Data Element Summary

CP	Ref.	Data		Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	L001	213	Lading Line Item Number Sequential line number for a lading item Must contain the same lading line number as the L501 for the corresponding commodity.	O 1 N0 1/6
X	L002	220	Billed/Rated-as Quantity Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81 Required if rate is based on number of units or pieces.	X 1 R 1/11
X	L003	221	Billed/Rated-as Qualifier Code identifying the type of quantity or value on which the rate or item pricing is based Only used if rates are based on units or pieces.	X 1 ID 2/2
			DM Miles	
			GL Gallon	
			ND Cord	
			A volume measurement	
			NP Piece	
			NU Unit	
			A specific measurement in rating shipments	
			NV Vehicle	
X	L004	81	Weight Numeric value of weight	X 1 R 1/10



X	L005	187	Weight Qualifier Code specifying the type of weight	X	1	ID 1/2
			A3 Shippers Weight			
			B Billed Weight			
			C Actual Net Repeated for Combination			
			E Estimated Net Weight			
			G Gross Weight			
			J Light Weight			
			K Clean Out			
			M Minimum Weight (for rate)			
			N Actual Net Weight			
			O Excess Weight Over Maximum			
			X Maximum Weight (for Rate)			
			This is not a comprehensive list and only includes some of the most commonly used Weight Qualifiers.			
Not Used	L006	183	Volume	X	1	R 1/8
Not Used	L007	184	Volume Unit Qualifier	X	1	ID 1/1
			Refer to 007010 Data Element Dictionary for acceptable code values.			
X	L008	80	Lading Quantity Number of units (pieces) of the lading commodity	X	1	NO 1/7
			Required for loaded Transborder movements into Canada.			
X	L009	211	Packaging Form Code Code specifying the packaging form of the lading quantity	X	1	ID 3/3
			Required for Transborder shipments and must be the value representing the smallest exterior package type.			
			BAG Bag			
			BAL Bale			
			BDL Bundle			
			BLK Bulk			
			CLD Car Load, Rail			
			CTN Carton			
			DRM Drum			
			LIF Lifts			
			PCS Pieces			
			PKG Package			
			PLT Pallet			
			SKD Skid			
			TKR Tank Car			
			UNT Unit			
			VEH Vehicles			
			This is not a comprehensive list and only includes some of the most commonly used Packaging Form Codes.			
Not Used	L010	458	Dunnage Description	O	1	AN 2/25
Not Used	L011	188	Weight Unit Code	O	1	ID 1/1
			Refer to 007010 Data Element Dictionary for acceptable code values.			



Not Used	L012	56	Type of Service Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/2
Not Used	L013	380	Quantity	X	1	R 1/15
Not Used	L014	211	Packaging Form Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 3/3
Not Used	L015	1073	Yes/No Condition or Response Code Refer to 007010 Data Element Dictionary for acceptable code values.	X	1	ID 1/1

Segment: **PI** Price Authority Identification
 Position: 5900
 Loop: PI Optional
 Level:
 Usage: Optional
 Max Use: 1
 Purpose: To communicate basis of pricing, such as contract number, quote number, or tariff number

Syntax Notes:

- Semantic Notes:
- 1 PI07 is the price authority suffix for the contract.
 - 2 PI08 is the price authority item number.
 - 3 PI09 is the price authority supplement.
 - 4 PI10 is the price authority section number.
 - 5 PI11 is the price authority suffix for tariff.

Comments:

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
M	PI01	128	Reference Identification Qualifier Code identifying the Reference Identification CT Contract Number PR Price Quote Number TS Tariff Number	M 1 ID 2/3
M	PI02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier The length of this field shall not exceed 10 characters. The decimal point is counted as a character. This is the Price Authority Number. This must be a numeric value and may contain a decimal. If the contract reference is alpha only, pass '9999999999'. The alpha reference will be passed in PI06.	M 1 AN 1/80



O	PI03	436	Primary Publication Authority Code Code indicating type of external reference OP Other Publication TP Tariff Publication	O	1	ID 2/2
O	PI04	930	Regulatory Agency Code Code identifying the regulatory agency governing the price reference	O	1	ID 3/5
O	PI05	168	Tariff Agency Code Code specifying the tariff bureau or tariff publishing agent that governs the rates applied to this shipment	O	1	ID 1/4
O	PI06	965	Issuing Carrier Identifier Identification assigned by issuing carrier	O	1	AN 1/10
O	PI07	660	Contract Suffix Used to identify a type of contract This is the Price Authority Suffix.	O	1	AN 1/2
O	PI08	169	Tariff Item Number Number assigned in the tariff to specific rate or group of rates that applies to one or more items in the shipment This is the Price Authority Item Number. This must be numeric value and may contain a decimal. The length of this field shall not exceed 10 characters. The decimal point is counted as a character.	O	1	AN 1/16
O	PI09	173	Tariff Supplement Identifier Identifier for the tariff supplement which contains the rate used	O	1	AN 1/4
O	PI10	172	Tariff Section Number Number used as an extension of the basic tariff number to identify the rates published within specific sections of the tariff	O	1	AN 1/2
O	PI11	660	Contract Suffix Used to identify a type of contract If present, PI08 is required. This is the Price Authority Item Number Suffix.	O	1	AN 1/2
Not Used	PI12	373	Date	O	1	DT 8/8
Not Used	PI13	373	Date	O	1	DT 8/8
Not Used	PI14	629	Alternation Precedence Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
Not Used	PI15	629	Alternation Precedence Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
Not Used	PI16	284	Service Level Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/2



Segment: **X1** Export License
 Position: 6000
 Loop: LX Mandatory
 Level:
 Usage: Optional
 Max Use: 6
 Purpose: To transmit information contained on an export license
 Syntax Notes:
 Semantic Notes:
 1 X104 is the export license expiration date.
 2 X116 is the export classification code number (ECCN).
 3 X117 is the Schedule D designation for the central location where the Shipper Export Declarations (SEDs) have been batch filed.
 Comments:

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
O	X101	83	Code For Licensing, Certification, Registration, or Accreditation Agency Code identifying a licensing, certification, registration, or accreditation agency. Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/2
O	X102	50	Export License Number Government assigned identification number for exporter	O 1 AN 6/35
O	X103	51	Export License Status Code Code specifying whether the shipment completes the terms of the license, or the shipment is only a partial delivery relative to the license terms Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
O	X104	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
O	X105	52	Export License Symbol Code Code specifying the export symbol marked on a shipment Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/2
O	X106	48	Export License Control Code Code indicating the type of control applicable to the export license Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
O	X107	26	Country Code Code identifying the country	O 1 ID 2/3
O	X108	141	Schedule B Code Code identifying commodity number established for international statistical purposes	O 1 ID 7/10
O	X109	210	International/Domestic Code Code indicating international or domestic shipment Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
O	X110	80	Lading Quantity Number of units (pieces) of the lading commodity	O 1 N0 1/7



O	X111	148	Lading Value Value of shipment for export, expressed in the standard monetary denomination for the currency specified	O	1	R 2/9
O	X112	47	Export Filing Key Code Code indicating the type of communications with customs Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 1/1
O	X113	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 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/2
O	X114	212	Unit Price Price per unit of product, service, commodity, etc.	O	1	R 1/17
O	X115	1306	U.S. Government License Type Code to identify the type of government license involved	O	1	AN 1/1
O	X116	67	Identification Code Code identifying a party or other code	O	1	AN 2/80
O	X117	310	Location Identifier Code which identifies a specific location	O	1	AN 1/30

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

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
M	LS01	447	Loop Identifier Code The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE	M 1 AN 1/6



Segment: **LH1** Hazardous Identification Information
 Position: 6800
 Loop: LH1 Optional (Recommended)
 Level:
 Usage: Optional (Recommended)
 Max Use: 1
 Purpose: To specify the hazardous commodity identification reference number and quantity
 Syntax Notes: 1 If either LH106 or LH107 is present, then the other is required.
 Semantic Notes: 1 LH112 is the packaging form code for the non-bulk container passed in the LH101 as defined in 49 CFR 178 and required by 49 CFR 172. (See Code Source 937)
 Comments: 1 LH101 and LH102 are used to convey the number and type of packages for bulk and non-bulk movements.
 2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for shipments.
 3 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Data Element Summary

CP	Ref.	Data		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LH101	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 Used to convey type of packages for bulk and non-bulk movements. Effective Oct 1, 2007 U.S regulations require an accurate description. Code 'UN' should only be used when describing compartmentalized tank cars.	M 1 ID 2/2
			16 115 Kilogram Drum A cylindrical container whose contents weigh 115 kilograms when full	
			17 100 Pound Drum A cylindrical container whose contents weigh 100 pounds when full	
			18 55 Gallon Drum A cylindrical container whose volume is equal to 55 gallons	
			1P Tank Car	
			TK Tank	
M	LH102	80	Lading Quantity Number of units (pieces) of the lading commodity Used to convey the number of packages in LH101. Effective Oct 1, 2007 U.S regulations require an accurate quantity.	M 1 N0 1/7
O	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 May also be used to pass IMDG Consumer Commodity designation 'ID8000'.	O 1 ID 6/6



O	LH104	200	Hazardous Materials Page The United Nations page number as required for the international transport of hazardous materials	O	1	AN 1/6
O	LH105	22	Commodity Code Code describing a commodity or group of commodities Must contain a 7-digit numeric Hazardous Materials Response code (HMRC).	O	1	AN 1/30
X	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 Refer to 007010 Data Element Dictionary for acceptable code values.	X	1	ID 2/2
X	LH107	380	Quantity Numeric value of quantity	X	1	R 1/15
O	LH108	595	Compartment ID Code Code identifying the compartment in a compartmentalized tank car 1 Brake End 2 2nd from Brake End 3 3rd from Brake End 4 4th from Brake End 5 5th from Brake End 6 6th from Brake End	O	1	ID 1/1
O	LH109	665	Residue Indicator Code Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded G Residue Last Contained Description (Small Means of Containment) P Residue Last Contained Description (Packages) Railcar other than Tank Car R Residue Last Contained Description (Rail Car) Tank Car	O	1	ID 1/1
O	LH110	254	Packing Group Code Code indicating degree of danger in terms of Roman number I, II or III	O	1	ID 1/3
Not Used	LH111	1375	Interim Hazardous Material Regulatory Number	O	1	AN 1/5
O	LH112	1271	Industry Code Code indicating a code from a specific industry code list	O	1	AN 1/30



Segment: **LH2** Hazardous Classification Information
 Position: 6900
 Loop: LH1 Optional (Recommended)
 Level:
 Usage: Optional
 Max Use: 4
 Purpose: To specify the hazardous notation and endorsement information
 Syntax Notes:
 1 If either LH206 or LH207 is present, then the other is required.
 2 If either LH208 or LH209 is present, then the other is required.
 3 If either LH210 or LH211 is present, then the other is required.
 4 If either LH212 or LH213 is present, then the other is required.
 Semantic Notes:
 1 LH206 and LH207 indicate the flashpoint temperature.
 2 LH208 and LH209 indicate the control temperature.
 3 LH210 and LH211 indicate the emergency temperature.
 4 LH212 and LH213 indicate the net explosive weight.
 Comments:

Data Element Summary

CP	Ref.	Data	Attributes	
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
O	LH201	215	Hazardous Classification Code Code specifying the hazardous classification corresponding to the shipping name of the hazardous commodity Mandatory whenever the data is required for U.S and/or Canadian hazardous shipment requirements. The compatibility group must follow the division number for dangerous goods included in Class 1 (i.e. 1.1D where D is the compatibility group). Except for combustible liquids, only pass the numeric hazard class, decimal, division and compatibility group if applicable. Do not pass the words 'CLASS' or 'HAZARD CLASS'. For Secondary Hazard Classifications do not pass parentheses. For combustible liquids pass 'COMBUSTIBLE LIQUID'.	O 1 ID 1/30
O	LH202	983	Hazardous Class Qualifier Code identifying hazardous class P Primary S Secondary	O 1 ID 1/1
O	LH203	218	Hazardous Placard Notation Code Code identifying the placard notation corresponding to the hazard class of the hazardous commodity Only used on 404 transaction sets for placarded shipments originated by a motor carrier and offered or delivered to a rail carrier for further transportation. This field should contain the words 'PLACARDED:' followed by the kind of placard affixed to the freight container or transport vehicle, i.e. 'PLACARDED: FLAMMABLE GAS'.	O 1 ID 14/40
Not Used	LH204	222	Hazardous Endorsement Code	O 1 ID 4/25



O	LH205	759	Reportable Quantity Code Code identifying presence of hazardous substance RQ Reportable Quantity	O	1	ID 2/2
X	LH206	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 CE Centigrade, Celsius FA Fahrenheit	X	1	ID 2/2
X	LH207	408	Temperature Temperature Flashpoint temperature	X	1	R 1/4
X	LH208	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CE Centigrade, Celsius FA Fahrenheit	X	1	ID 2/2
X	LH209	408	Temperature Temperature Control Temperature	X	1	R 1/4
X	LH210	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CE Centigrade, Celsius FA Fahrenheit	X	1	ID 2/2
X	LH211	408	Temperature Temperature Emergency Temperature	X	1	R 1/4
X	LH212	188	Weight Unit Code Code specifying the weight unit E Metric Ton K Kilograms L Pounds	X	1	ID 1/1
X	LH213	267	Net Explosive Quantity Net weight of the explosive quantity of the hazardous commodity Used to convey net explosive weight for both U.S and Canadian shipments.	X	1	N0 1/10



Segment: **LH3** Hazardous Material Shipping Name Information
 Position: 7000
 Loop: LH1 Optional (Recommended)
 Level:
 Usage: Optional
 Max Use: 10
 Purpose: To specify the hazardous material shipping name and additional descriptive requirements
 Syntax Notes: 1 If either LH301 or LH302 is present, then the other is required.
 Semantic Notes: 1 If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.
 Comments:

Data Element Summary

CP	Ref.	Data		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
X	LH301	224	Hazardous Material Shipping Name The proper shipping name of the hazardous commodity as specified by Title 49 Code of Federal Regulations, or the shipping name of the dangerous good as defined in the Canadian Transportation of Dangerous Goods Act and Regulations, or the international regulations as promulgated by the United Nations This field will contain the shipping name defined by the regulatory authority identified in LH302.	X 1 AN 1/25
X	LH302	984	Hazardous Material Shipping Name Qualifier Code indicating the source (regulatory) of the proper shipping name C Canadian Shipping Name D Domestic (United States) Shipping Name I International Shipping Name	X 1 ID 1/1
Not Used	LH303	985	N.O.S. Indicator Code Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 3/3
Not Used	LH304	1073	Yes/No Condition or Response Code Refer to 007010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1



Segment: **LFH** Free-form Hazardous Material Information
 Position: 7100
 Loop: LH1 Optional (Recommended)
 Level:
 Usage: Optional
 Max Use: 20
 Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments

Syntax Notes: 1 If either LFH05 or LFH06 is present, then the other is required.
 Semantic Notes: 1 LFH06 indicates activity of the radioactive material.
 2 LFH07 indicates transport index of the radioactive material.
 3 LFH08 is the date fumigation began.

Comments:

Data Element Summary

CP	Ref.	Data			
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	LFH01	808	Hazardous Material Shipment Information Qualifier	M	1 ID 3/3
			Code indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements		
			ADI	Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper	
			CER	Hazardous Materials Certification	
				To specify the name of the person certifying that the shipment complies with the regulations	
			D13	"DOT - 113, Do Not Hump or Cut Off Car While in Motion" Declaration	
			D20	"AAR - 204, Do Not Hump or Cut Off Car While in Motion" Declaration	
			DRC	Damaged Car Number	
			EQP	Conveyed Equipment Identification	
			FUM	Fumigation Declaration	
			HOT	Identifies Products in a Heated Molten State	
			HZC	Hazardous Substance Constituents	
			INH	Inhalation Hazard	
			LQY	"Limited Quantity" Declaration	
			MOS	Maximum Operating Speed	
			MPI	Marine Pollutant	
			NOD	Not Odorized Declaration	
			PIH	"Poison - Inhalation Hazard" Declaration	
			POI	"Poison" Declaration	
			RAM	Radioactive Material Data	
			TEC	Technical or Chemical Group Name	
			TNM	Trade Name	



WST Waste Declaration

			This is not a comprehensive list and only includes some of the most commonly used Hazardous Material Shipment Information Qualifiers.		
M	LFH02	809	Hazardous Material Shipment Information Specific information required by law for hazardous material shipments	M	1 AN 1/25
O	LFH03	809	Hazardous Material Shipment Information Specific information required by law for hazardous material shipments	O	1 AN 1/25
			Used to provide field for overflow data from LFH02. If used to identify Protective Direction Number pass the Protective Direction Number here.		
O	LFH04	1023	Hazard Zone Code Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone Used only when LFH01 equals PIH.	O	1 ID 1/1
			A	Hazard Zone A	
			B	Hazard Zone B	
			C	Hazard Zone C	
			D	Hazard Zone D	
X	LFH05	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	X	1 ID 2/2
			1T	Terabecquerel	
			4N	Megabecquerel	
				Unit of radiation	
			G4	Gigabecquerel	
				Unit of radiation equal to 27 millcuries	
			R2	Becquerel	
				Unit of radiation equal to 3.7 * 10 ¹⁰ of a curie	
X	LFH06	380	Quantity Numeric value of quantity	X	1 R 1/15
			Activity of radioactive material. Used only when LFH01 equals RAM.		
X	LFH07	380	Quantity Numeric value of quantity	O	1 R 1/15
			Transport index of radioactive material. Used only when LFH01 equals RAM. This is a dimensionless value.		
X	LFH08	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O	1 DT 8/8
			Only used when LFH01= 'FUM' and is the date fumigation began.		



Segment: **LEP** EPA Required Data
 Position: 7200
 Loop: LH1 Optional (Recommended)
 Level:
 Usage: Optional
 Max Use: 3
 Purpose: To specify the Environmental Protection Agency (EPA) information relating to shipments of hazardous material

Syntax Notes: 1 If either LEP03 or LEP04 is present, then the other is required.
 Semantic Notes: 1 LEP03 is used to identify the state or province responsible for the hazardous waste number contained in LEP04.
 2 LEP04 is the hazardous waste number.

Comments:

Data Element Summary

CP	Ref.	Data			
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
O	LEP01	806	EPA Waste Stream Number Code	O	1 ID 4/6
			Code specifying the waste stream number applicable to the movement of hazardous waste as determined by government regulations If more than 3 waste stream codes, use LFH segment qualified with ADI. Waste Stream Number is to be enclosed in parenthesis.		
Not Used	LEP02	807	Waste Characteristics Code	O	1 ID 12/16
Not Used	LEP03	156	State or Province Code	X	1 ID 2/2
Not Used	LEP04	127	Reference Identification	X	1 AN 1/80



Segment: **LH4** Canadian Dangerous Requirements
 Position: 7300
 Loop: LH1 Optional (Recommended)
 Level:
 Usage: Optional
 Max Use: 4
 Purpose: To specify additional Transport Canada requirements covering transportation of dangerous goods in Canada
 Syntax Notes: If either LH401 or LH402 is present, then the other is required.
 Semantic Notes:
 Comments: LH402 is used for the emergency response plan telephone number.

Data Element Summary

CP	Ref.	Data			
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
X	LH401	238	Emergency Response Plan Number The identity number of a specific hazardous emergency response plan that is assigned by the Director General of Canada Required if the commodity is listed in Schedule 1, Column 7 of the Canadian Transportation of Dangerous Goods regulations. Format to be confirmed with Canadian Transportation of Dangerous Goods requirements. Currently the valid formats are n-nnnn OR n-nnnn-nnn	X	1 AN 1/12
X	LH402	364	Communication Number Complete communications number including country or area code when applicable Required if LH401 is present.	X	1 AN 1/2048
Not Used	LH403	254	Packing Group Code	O	1 ID 1/3
Not Used	LH404	230	Subsidiary Classification Code	O	1 ID 1/3
Not Used	LH405	230	Subsidiary Classification Code	O	1 ID 1/3
Not Used	LH406	230	Subsidiary Classification Code	O	1 ID 1/3
Not Used	LH407	271	Subsidiary Risk Indicator Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1 ID 1/2
Not Used	LH408	267	Net Explosive Quantity	X	1 NO 1/10
Not Used	LH409	805	Canadian Hazardous Notation	O	1 AN 1/25
Not Used	LH410	986	Special Commodity Indicator Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1 ID 1/1
Not Used	LH411	364	Communication Number	O	1 AN 1/2048
Not Used	LH412	355	Unit or Basis for Measurement Code Refer to 007010 Data Element Dictionary for acceptable code values.	X	1 ID 2/2



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

Syntax Notes:
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
O	LHT01	215	Hazardous Classification Code Code specifying the hazardous classification corresponding to the shipping name of the hazardous commodity	O 1 ID 1/30
Not Used	LHT02	218	Hazardous Placard Notation Code	O 1 ID 14/40
Not Used	LHT03	222	Hazardous Endorsement Code	O 1 ID 4/25

Segment: **LHR** Hazardous Material Identifying Reference Numbers
 Position: 7500
 Loop: LH1 Optional (Recommended)
 Level:
 Usage: Optional
 Max Use: 5
 Purpose: To transmit specific hazardous material reference numbers

Syntax Notes:
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LHR01	128	Reference Identification Qualifier Code identifying the Reference Identification	M 1 ID 2/3
			AH Agreement Number	
			F3 Submission Number	
			A unique number assigned to the submitted transaction set; this number is used by the payer to track every file submitted	
			HA Competent Authority	
			HD Department of Transportation Hazardous Number	
			HE Hazardous Exemption Number	



			MA	Ship Notice/Manifest Number		
			MDN	Hazardous Waste Manifest Document Number		
			PN	Permit Number		
			S0	Special Approval		
M	LHR02	127	Reference Identification		M	1 AN 1/80
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
O	LHR03	373	Date		O	1 DT 8/8
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year			
			If used LHR01 must be 'PN'. Used for Transport Canada Permit expiration date. The receiver is required to display the date transmitted preceded by the phrase 'EXPIRY DATE:'			

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

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

Semantic Notes:

Comments:

Notes: If PER05 or PER06 is present, then PER03 or PER04 is required.

Data Element Summary

CP	Ref.	Data		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366	Contact Function Code	M 1 ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			CN	General Contact
			HM	Hazardous Material Contact
			MX	Mexican Hazardous Information Contact
O	PER02	93	Name	O 1 AN 1/35
			Free-form name	
			Used to pass emergency contact. Must contain a valid entity identified by name or contact reference.	
X	PER03	365	Communication Number Qualifier	X 1 ID 2/2
			Code identifying the type of communication number	
			TE	Telephone
				Voice only



X	PER04	364	Communication Number Complete communications number including country or area code when applicable Telephone number provided must contain area code or where applicable for international dialing, the international access code or the plus '+' sign and the country and city code as required in addition to the telephone number.	X	1	AN 1/80
Not Used	PER05	365	Communication Number Qualifier	X	1	ID 2/2
Not Used	PER06	364	Communication Number	X	1	AN 1/80
Not Used	PER07	365	Communication Number Qualifier	X	1	ID 2/2
Not Used	PER08	364	Communication Number	X	1	AN 1/80
Not Used	PER09	443	Contact Inquiry Reference	O	1	AN 1/20

Segment: **N1** Party Identification
 Position: 7560
 Loop: N1 Optional
 Level:
 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:
 Legal Entity names (Railinc/DUN & BRADSTREET) must be provided.

Data Element Summary

CP	Ref.	Data		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual CN Consignee CT Country of Origin HW Designated Hazardous Waste Facility HX Transporter of Hazardous Waste HZ Hazardous Waste Generator SH Shipper	M 1 ID 2/3
X	N102	93	Name Free-form name	X 1 AN 1/35



X	N103	66	Identification Code Qualifier Code specifying the system/method of code structure used for Identification Code (67)	X	1	ID 1/2
		38	Country Code Used only if N101 equals 'CT'.			
		AB	US Environmental Protection Agency (EPA) Identification Number Used only if N101 equals 'HW', 'HX' or 'HZ'.			
		C5	Customer Identification File Used only if N101 equals 'CN' or 'SH'.			
X	N104	67	Identification Code Code identifying a party or other code	X	1	AN 2/80
			If N103 equals 'C5' pass CIF number. If N103 equals '38' pass ISO Code 3166 for Country of Origin. CA- Canada MX- Mexico US- United States If N103 equals 'AB' pass EPA Identification Number.			
Not Used	N105	706	Entity Relationship Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/2
Not Used	N106	98	Entity Identifier Code Refer to 007010 Data Element Dictionary for acceptable code values.	O	1	ID 2/3

Segment: **N3** Party Location
 Position: 7570
 Loop: N1 Optional
 Level:
 Usage: Optional
 Max Use: 2
 Purpose: To specify the location of the named party
 Syntax Notes:
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data		Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N301	166	Address Information Address information	M 1 AN 1/55
O	N302	166	Address Information Address information	O 1 AN 1/55



Segment: **N4** Geographic Location
 Position: 7580
 Loop: N1 Optional
 Level:
 Usage: Optional
 Max Use: 1
 Purpose: To specify the geographic place of the named party
 Syntax Notes:
 1 Only one of N402 or N407 may be present.
 2 Only one of N403 or N408 may be present.
 3 If N406 is present, then N405 is required.
 4 If N407 is present, then N404 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 N403 contains the postal code in an unstructured format. N408 contains the postal code in a structured format. When a postal code data field is used, the parties shall agree as to which data element (N403 or N408) shall be used in the transaction set.

Data Element Summary

CP	Ref.	Data	Attributes		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>		
O	N401	19	City Name Free-form text for city name	O	1 AN 2/30
X	N402	156	State or Province Code Code specifying the Standard State/Province as defined by appropriate government agency	X	1 ID 2/2
X	N403	116	Postal Code Code specifying international postal zone code excluding punctuation and blanks (zip code for United States)	X	1 ID 3/15
X	N404	26	Country Code Code identifying the country	X	1 ID 2/3
Not Used	N405	309	Location Qualifier Refer to 007010 Data Element Dictionary for acceptable code values.	X	1 ID 1/2
Not Used	N406	310	Location Identifier	O	1 AN 1/30
Not Used	N407	1715	Country Subdivision Code	X	1 ID 1/3
Not Used	N408	1702	Postal Code-Formatted	X	1 AN 3/20



Segment: **PER** Administrative Communications Contact
 Position: 7590
 Loop: N1 Optional
 Level:
 Usage: Optional
 Max Use: 2
 Purpose: To identify a person or office to whom administrative communications should be directed

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

Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data			
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	PER01	366	Contact Function Code	M	1 ID 2/2
			Code identifying the major duty or responsibility of the person or group named		
			RP Responsible Person		
O	PER02	93	Name	O	1 AN 1/35
			Free-form name		
X	PER03	365	Communication Number Qualifier	X	1 ID 2/2
			Code identifying the type of communication number		
			TE Telephone		
			Voice only		
X	PER04	364	Communication Number	X	1 AN 1/2048
			Complete communications number including country or area code when applicable		
			Telephone number provided must contain area code or where applicable for international dialing, the international access code or the plus '+' sign and the country and city code as required in addition to the telephone number.		
Not Used	PER05	365	Communication Number Qualifier	X	1 ID 2/2
			Refer to 007010 Data Element Dictionary for acceptable code values.		
Not Used	PER06	364	Communication Number	X	1 AN 1/2048
Not Used	PER07	365	Communication Number Qualifier	X	1 ID 2/2
			Refer to 007010 Data Element Dictionary for acceptable code values.		
Not Used	PER08	364	Communication Number	X	1 AN 1/2048
Not Used	PER09	443	Contact Inquiry Reference	O	1 AN 1/20



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

Data Element Summary

CP	Ref.	Data		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LE01	447	Loop Identifier Code	M 1 AN 1/6
			The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE	



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

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

Semantic Notes:
 Comments:

Notes: This PER segment should only be used in loop iterations where N101= 'HZ' or 'HW'. This contact is for informational purposes only. Hazardous Materials contacts should be conveyed in the applicable PER segments in the LH1 loop.

When used to convey a telephone or facsimile number the alpha representation of the number should not be used (i.e. 1-800-AAR-HELP).

Data Element Summary

CP	Ref.	Data	Attributes	
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	PER01	366	Contact Function Code	M 1 ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			CN General Contact	
			HM Hazardous Material Contact	
			MX Mexican Hazardous Information Contact	
O	PER02	93	Name	O 1 AN 1/35
			Free-form name	
			Used to pass emergency contact. Must contain a valid entity identified by name or contract reference.	
X	PER03	365	Communication Number Qualifier	X 1 ID 2/2
			Code identifying the type of communication number	
			TE Telephone	
			Voice only	
X	PER04	364	Communication Number	X 1 AN 1/2048
			Complete communications number including country or area code when applicable	
			Telephone number provided must contain area code or where applicable for international dialing, the international access code or the plus '+' sign and the country and city code as required in addition to the telephone number.	
Not Used	PER05	365	Communication Number Qualifier	X 1 ID 2/2
Not Used	PER06	364	Communication Number	X 1 AN 1/2048
Not Used	PER07	365	Communication Number Qualifier	X 1 ID 2/2
Not Used	PER08	364	Communication Number	X 1 AN 1/2048
Not Used	PER09	443	Contact Inquiry Reference	O 1 AN 1/20



Segment: **LH2** Hazardous Classification Information
 Position: 7800
 Loop:
 Level:
 Usage: Optional
 Max Use: 6
 Purpose: To specify the hazardous notation and endorsement information
 Syntax Notes:
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
Not Used	LH201	215	Hazardous Classification Code	O 1 ID 1/30
Not Used	LH202	983	Hazardous Class Qualifier	O 1 ID 1/1
			Refer to 007010 Data Element Dictionary for acceptable code values.	
O	LH203	218	Hazardous Placard Notation Code	O 1 ID 14/40
			Code identifying the placard notation corresponding to the hazard class of the hazardous commodity	
			Only used on a 404 transaction sets for placarded shipments originated by a motor carrier and offered or delivered to a rail carrier for further transportation. This field should contain the words 'PLACARDED' followed by the kind of placard affixed to the freight container or transport vehicle i.e. 'PLACARDED FLAMMABLE GAS'.	
Not Used	LH204	222	Hazardous Endorsement Code	O 1 ID 4/25
Not Used	LH205	759	Reportable Quantity Code	O 1 ID 2/2
			Refer to 007010 Data Element Dictionary for acceptable code values.	
Not Used	LH206	355	Unit or Basis for Measurement Code	X 1 ID 2/2
			Refer to 007010 Data Element Dictionary for acceptable code values.	
Not Used	LH207	408	Temperature	X 1 R 1/4
Not Used	LH208	355	Unit or Basis for Measurement Code	X 1 ID 2/2
			Refer to 007010 Data Element Dictionary for acceptable code values.	
Not Used	LH209	408	Temperature	X 1 R 1/4
Not Used	LH210	355	Unit or Basis for Measurement Code	X 1 ID 2/2
			Refer to 007010 Data Element Dictionary for acceptable code values.	
Not Used	LH211	408	Temperature	X 1 R 1/4
Not Used	LH212	188	Weight Unit Code	X 1 ID 1/1
			Refer to 007010 Data Element Dictionary for acceptable code values.	
Not Used	LH213	267	Net Explosive Quantity	X 1 N0 1/10



Segment: **LHR** Hazardous Material Identifying Reference Numbers
 Position: 7900
 Loop:
 Level:
 Usage: Optional
 Max Use: 1
 Purpose: To transmit specific hazardous material reference numbers
 Syntax Notes:
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data	Name	Attributes
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>		
M	LHR01	128	Reference Identification Qualifier Code identifying the Reference Identification AH Agreement Number HE Hazardous Exemption Number PN Permit Number	M 1 ID 2/3
M	LHR02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M 1 AN 1/80
O	LHR03	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year If used LHR01 must be 'PN'. Used for Transport Canada Permit expiration date. The receiver is required to display the date transmitted preceded by the phrase 'EXPIRY DATE:'	O 1 DT 8/8



Segment: **LH6** Hazardous Certification
 Position: 8000
 Loop:
 Level:
 Usage: Optional (Recommended)
 Max Use: 5
 Purpose: To specify the name of the person certifying that the shipment complies with the regulations and/or the actual certification

Syntax Notes:
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data			
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
O	LH601	93	Name Free-form name	O	1 AN 1/60
Must be the name of the person certifying the shipment. A company name is NOT Acceptable. If the shipment is tendered by a non-offerer to a subsequent rail carrier send "Certification on file with origin carrier".					
Not Used	LH602	272	Hazardous Certification Code Refer to 007010 Data Element Dictionary for acceptable code values.	X	1 ID 1/1
Not Used	LH603	273	Hazardous Certification Declaration	X	1 AN 1/25
Not Used	LH604	273	Hazardous Certification Declaration	O	1 AN 1/25



Segment: **XH** Pro Forma - B13 Information
 Position: 8100
 Loop:
 Level:
 Usage: Optional
 Max Use: 1
 Purpose: To specify a pro forma invoice and B13 Canada Customs Export Declaration information, required by U.S. Customs and Border Protection (CBP) and Canada Customs

Syntax Notes:
 Semantic Notes:

- 1 XH04 for a line item: is the freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified.
- 2 XH06 will contain percentage of a component of a product which is required by customs to be reported.
- 3 XH07 will contain unit price of the item being shipped.

Comments: 1 This segment is to be used for shipments originating in Canada only.

Data Element Summary

CP	Ref.	Data		
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	XH01	100	Currency Code	M 1 ID 3/3
			Code specifying the Standard ISO code for country in whose currency the charges are specified	
			Qualifies the value in X114.	
			CAD Canadian Dollars	
			MXP Mexican Peso	
			USD U.S. Dollars	
O	XH02	645	Related Company Indication Code	O 1 ID 1/1
			Code indicating parties to a transaction	
			Refer to 007010 Data Element Dictionary for acceptable code values.	
O	XH03	150	Special Charge or Allowance Code	O 1 ID 3/3
			Code identifying type of special charge or allowance	
			595 Proforma Invoice	
			FCB Freight Charges to Border	
			FCD Freight Charges to Destination	
O	XH04	610	Amount	O 1 N2 1/15
			Monetary amount	
			Required if freight charges are not included in the value of the shipment.	
O	XH05	503	Block 20 Code	O 1 ID 1/1
			Code identifying Block 20 characteristics	
			Refer to 007010 Data Element Dictionary for acceptable code values.	
O	XH06	504	Chemical Analysis Percentage	O 1 N2 2/9
			Chemical analysis percentage	
O	XH07	212	Unit Price	O 1 R 1/17
			Price per unit of product, service, commodity, etc.	



Segment: **X7** Customs Information
 Position: 8200
 Loop:
 Level:
 Usage: Optional
 Max Use: 10
 Purpose: To indicate customs information
 Syntax Notes:
 Semantic Notes:
 Comments:

Data Element Summary

CP	Ref.	Data			
<u>Attributes</u>	<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	X701	61	Free-form Information Free-form information	M	1 AN 1/30
O	X702	61	Free-form Information Free-form information	O	1 AN 1/30

Segment: **SE** Transaction Set Trailer
 Position: 8400
 Loop:
 Level:
 Usage: Mandatory
 Max Use: 1
 Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
 Syntax Notes:
 Semantic Notes:
 Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	Ref.	Data			
	<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M	1 NO 1/10
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	1 AN 4/9



SAMPLE EDI 404:

ISA*00* *00* *ZZ*SENDER *ZZ*CPRST *181029*1049*U*00401*100123456*0*P*>
GS*SR*SENDER*CPRST*20181029*1049*123456*X*004010
ST*404*123456
BX*00*R*PP*0009876543*CPRS*L*B*S
BNX*T**S
M3*R*20181029*1049
N9*BM*0009876543
N7*ABCD*066777*221748*N*****RR
M7*013579
F9**Altona*MB
D9**OGDEN*AB
N1*C1*CARE OF PARTY
N3*1234 ROAD E
N4*OGDEN*AB*T2C 4X9*CA
N1*SH*SHIPPER NAME
N3*101 2nd St
N4*ALTONA*MB*ROG 0B0*CA
N1*CN*CONSIGNEE NAME
N3*4321 ROAD E
N4*OGDEN*AB*T2C 4X9*CA
N1*PF*PAYER OF FREIGHT
N3*101 2nd St
N4*ALTONA*MB*ROG 0B0*CA
R2*CPRS*S
H3*NH
LX*1
L5*1*LUMBER*2421184*T
L0*1***221748*N***35*PKG
PI*CT*123000***CPRS*CPRS
SE*28*123456
GE*1*123456
IEA*1*100123456