

404 Rail Carrier Shipment Information

Functional Group ID=**SR**

Introduction:

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

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		
	0200	ZC1	Beginning Segment for Data Correction or Change	O	1		
	0300	BX	General Shipment Information	O	1		n1
	0400	BNX	Rail Shipment Information	O	1		
M	0500	M3	Release	M	1		
M	0600	N9	Extended Reference Information	M	30		
	0700	CM	Cargo Manifest	O	2		
	0800	M1	Insurance	O	1		
	0900	DTM	Date/Time Reference	O	5		
						LOOP ID - N7	500
M	1000	N7	Equipment Details	M	1		
	1010	EM	Equipment Characteristics	O	1		
						LOOP ID - VC	36
	1100	VC	Motor Vehicle Control	O	1		
						LOOP ID - N1	2
	1120	N1	Party Identification	O	1		
	1140	N3	Party Location	O	2		
	1160	N4	Geographic Location	O	1		
	1180	H3	Special Handling Instructions	O	1		
	1300	M7	Seal Numbers	O	5		
	1400	N5	Equipment Ordered	O	1		
	1500	IC	Intermodal Chassis Equipment	O	1		
	1600	IM	Intermodal Movement Information	O	1		
	1700	M12	In-bond Identifying Information	O	2		
						LOOP ID - E1	2
	1710	E1	Empty Car Disposition - Pended Destination Consignee	O	1		
	1720	E4	Empty Car Disposition - Pended Destination City	O	1		
	1730	E5	Empty Car Disposition - Pended Destination Route	O	13		
	1740	PI	Price Authority Identification	O	1		
	1750	GA	Canadian Grain Information	O	15		
						LOOP ID - REF	99
	1770	REF	Reference Information	O	1		
	1780	N10	Quantity and Description	O	15		
						LOOP ID - N1	5
	1790	N1	Party Identification	O	1		

	1800	N3	Party Location	O	1	
	1820	N4	Geographic Location	O	1	
	1850	NA	Cross-Reference Equipment	O	10	
M	1900	F9	Origin Station	M	1	
M	2000	D9	Destination Station	M	1	
LOOP ID - N1					15	
M	2100	N1	Party Identification	M	1	
	2150	N2	Additional Name Information	O	2	
	2200	N3	Party Location	O	2	
	2300	N4	Geographic Location	O	1	
	2350	REF	Reference Information	O	2	
	2400	PER	Administrative Communications Contact	O	2	
	2520	BL	Billing Information	O	12	
LOOP ID - S1					12	
	4300	S1	Stop-off Name	O	1	
	4400	S2	Stop-off Address	O	2	
	4480	S9	Stop-off Station	O	1	
	4490	N1	Party Identification	O	1	
	4500	N2	Additional Name Information	O	1	
	4510	N3	Party Location	O	1	
	4520	N4	Geographic Location	O	1	
	4530	PER	Administrative Communications Contact	O	1	
	4600	R2	Route Information	O	13	
	4800	R9	Route Code Identification	O	1	
LOOP ID - E1					2	
	4900	E1	Empty Car Disposition - Pended Destination Consignee	O	1	
	5000	E4	Empty Car Disposition - Pended Destination City	O	1	
	5100	E5	Empty Car Disposition - Pended Destination Route	O	13	
	5110	PI	Price Authority Identification	O	1	
	5200	H3	Special Handling Instructions	O	20	
	5300	PS	Protective Service Instructions	O	5	
LOOP ID - LX					25	
M	5400	LX	Transaction Set Line Number	M	1	
M	5500	L5	Description, Marks and Numbers	M	15	
LOOP ID - L0					25	
	5700	L0	Line Item - Quantity and Weight	O	1	
	5750	MEA	Measurements	O	3	
	5800	L1	Rate and Charges	O	10	
	5900	PI	Price Authority Identification	O	30	
	6000	X1	Export License	O	6	
LOOP ID - T1					64	
	6100	T1	Transit Inbound Origin	O	1	
	6200	T2	Transit Inbound Lading	O	30	
	6300	T3	Transit Inbound Route	O	12	
	6400	T6	Transit Inbound Rates	O	1	
	6500	T8	Free-form Transit Data	O	99	
	6600	L3	Total Weight and Charges	O	1	
	6700	LS	Loop Header	O	1	

		LOOP ID - LH1		1000	
	6800	LH1	Hazardous Identification Information	O	1
	6900	LH2	Hazardous Classification Information	O	4
	7000	LH3	Hazardous Material Shipping Name Information	O	10
	7100	LFH	Free-form Hazardous Material Information	O	20
	7200	LEP	EPA Required Data	O	3
	7300	LH4	Canadian Dangerous Requirements	O	4
	7400	LHT	Transborder Hazardous Requirements	O	3
	7500	LHR	Hazardous Material Identifying Reference Numbers	O	5
	7550	PER	Administrative Communications Contact	O	5
		LOOP ID - N1			10
	7560	N1	Party Identification	O	1
	7570	N3	Party Location	O	2
	7580	N4	Geographic Location	O	1
	7590	PER	Administrative Communications Contact	O	2
	7600	LE	Loop Trailer	O	1
	7700	PER	Administrative Communications Contact	O	5
	7800	LH2	Hazardous Classification Information	O	6
	7900	LHR	Hazardous Material Identifying Reference Numbers	O	1
	8000	LH6	Hazardous Certification	O	5
	8100	XH	Pro Forma - B13 Information	O	1
	8200	X7	Customs Information	O	10
M	8400	SE	Transaction Set Trailer	M	1

Transaction Set Notes

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

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

- 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
- 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

Comments:
Business Rules: Variable Name: STST

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143 Transaction Set Identifier Code Code uniquely identifying a Transaction Set Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 3/3
M	ST02	329 Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M 1 AN 4/9
	ST03	1705 Implementation Convention Reference Reference assigned to identify Implementation Convention	O 1 AN 1/35

Segment: **ZC1** Beginning Segment for Data Correction or Change
Position: 0200
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes:
Semantic Notes: 1 If ZC108 is "R" (Rail), then ZC102 is required.
 2 ZC109 is the equipment check digit for the equipment number in ZC103.
Comments: 1 For any rail shipment, ZC102 is required.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
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
	ZC102	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number	O 1 AN 1/4
M	ZC103	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
M	ZC104	Transaction Reference Number Sender's assigned number for referenced transaction set	M 1 AN 1/50
M	ZC105	Transaction Reference Date Date of referenced transaction set expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	M 1 DT 8/8
M	ZC106	Correction Indicator Code used to indicate that the transaction set contains information which corrects previous information Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
M	ZC107	Standard Carrier Alpha Code Standard Carrier Alpha Code	M 1 ID 2/4
M	ZC108	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 1/2
	ZC109	Equipment Number Check Digit Number which designates the check digit applied to a piece of equipment	O 1 N0 1/1

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BX01	353	Transaction Set Purpose Code Code identifying purpose of transaction set Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
M	BX02	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 1/2
M	BX03	146	Shipment Method of Payment Code identifying payment terms for transportation charges Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
	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
	BX05	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O 1 ID 2/4
	BX06	188	Weight Unit Code Code specifying the weight unit Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	BX07	147	Shipment Qualifier Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	BX08	226	Section Seven Code Code indicating applicability of section seven option (if not transmitted assume not in effect) Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	BX09	195	Capacity Load Code Code specifying type of capacity load Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	BX10	160	Status Report Request Code Code used by the shipper to specify that an automatic status report is requested when the shipment is delivered Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	BX11	501	Customs Documentation Handling Code Code defining method of handling for documentation Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	BX12	199	Confidential Billing Request Code Code used by the shipper to request that the carrier inhibit origin identification information from the invoice transaction sets and/or rate and charges from waybill documents and transaction sets when shipment moves under	O 1 ID 1/1

confidential contract rates

Refer to 005010 Data Element Dictionary for acceptable code values.

BX13 **714** **Goods and Services Tax Reason Code** **O** **1 ID 1/1**

Code required to identify the reason for a 0% rated goods and services tax

Refer to 005010 Data Element Dictionary for acceptable code values.

BX14 **346** **Application Type** **O** **1 ID 2/2**

Code identifying an application

Refer to 005010 Data Element Dictionary for acceptable code values.

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

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
BNX01	460	Shipment Weight Code Code indicating the way by which weights are obtained for a particular shipment Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
BNX02	129	Referenced Pattern Identifier Identification of a repetitive pattern that is to be used as a basis for creating a shipment record or a new pattern; or identification of a pattern requiring change or deletion	O 1 AN 1/13
BNX03	11	Billing Code Code indicating type of Bill Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
BNX04	223	Repetitive Pattern Number RWC number composed of a four-digit number with a fifth digit being a modulus 10 check digit	O 1 N0 5/5

Segment: **M3** Release
Position: 0500
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate that the equipment is or is not to be released
Syntax Notes: 1 At least one of M302 or M303 is required.
2 If M304 is present, then M303 is required.
Semantic Notes: 1 If M301 contains code value "S" or "R", then M302 is the date of release. If M301 contains code value "U", then M302 is the estimated date of release.
2 M304 reflects the time zone which the time reflects.
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	M301	132	Release Code 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) Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 1/1
	M302	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X 1 DT 8/8
	M303	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
	M304	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 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2

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

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

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/3
	N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50
	N903	369	Free-form Description Free-form descriptive text	X 1 AN 1/45
	N904	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
	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
	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 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	N907	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O 1
M	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/50
	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	X ID 2/3
	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50

C04005	128	Reference Identification Qualifier	X	ID 2/3
		Code qualifying the Reference Identification		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
C04006	127	Reference Identification	X	AN 1/50
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **CM** Cargo Manifest
Position: 0700
Loop:
Level:
Usage: Optional
Max Use: 2
Purpose: To identify specific flight or voyage information for multimodal shipments
Syntax Notes: 1 If CM04 is present, then CM02 is required.
Semantic Notes: 1 CM04 is qualified by CM02.
2 CM06 contains the carrier code.
3 CM07 contains the previous carrier code.
4 CM08 is the manifest date.
5 CM15 is the vessel agent number.
Comments: 1 CM02 is "D" for rail origin and "L" for rail destination.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
CM01	55	Flight/Voyage Number	O	1 AN 2/10
		Identifying designator for the particular flight or voyage on which the cargo travels		
CM02	115	Port or Terminal Function Code	X	1 ID 1/1
		Code defining function performed at the port or terminal with respect to a shipment Refer to 005010 Data Element Dictionary for acceptable code values.		
CM03	114	Port Name	O	1 AN 2/24
		Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property		
CM04	373	Date	O	1 DT 8/8
		Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year		
CM05	13	Booking Number	O	1 AN 1/17
		Number assigned by the carrier for space reservation		
CM06	140	Standard Carrier Alpha Code	O	1 ID 2/4
		Standard Carrier Alpha Code		
CM07	140	Standard Carrier Alpha Code	O	1 ID 2/4
		Standard Carrier Alpha Code		
CM08	373	Date	O	1 DT 8/8
		Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year		
CM09	182	Vessel Name	O	1 AN 2/28
		Name of ship as documented in "Lloyd's Register of Ships"		
CM10	113	Pier Number	O	1 AN 1/4
		Identifying number for the pier		
CM11	112	Pier Name	O	1 AN 2/14
		Free-form name of the pier		
CM12	174	Terminal Name	O	1 AN 2/30
		Free-form field for terminal name		
CM13	156	State or Province Code	O	1 ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency		
CM14	26	Country Code	O	1 ID 2/3
		Code identifying the country		
CM15	127	Reference Identification	O	1 AN 1/50
		Reference information as defined for a particular Transaction Set or as specified		

CM16	202	by the Reference Identification Qualifier Correction Indicator	O	1	ID 2/2
		Code used to indicate that the transaction set contains information which corrects previous information Refer to 005010 Data Element Dictionary for acceptable code values.			
CM17	91	Transportation Method/Type Code	O	1	ID 1/2
		Code specifying the method or type of transportation for the shipment Refer to 005010 Data Element Dictionary for acceptable code values.			

Segment: **M1 Insurance**
Position: 0800
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To specify details related to insurance
Syntax Notes:

- 1 If either M107 or M108 is present, then the other is required.
- 2 If either M109 or M110 is present, then the other is required.
- 3 If either M111 or M112 is present, then the other is required.

Semantic Notes:

- 1 M101 is the code identifying the country in whose currency the insurance is specified.
- 2 M105 (organization identifier) is the code for the beneficiary of the insurance policy.
- 3 M106 is free-form information used to describe the type of insurance coverage.

Comments:

- 1 M107 through M112 may be used to specify the values to be used in insurance formulas. For example: M107 and M108 may specify the basis of application and the premium rate (\$0.25 per hundred), M109 and M110 may specify the value at which insurance is to be obtained (insure at 110% of bill of lading value), and M111 and M112 may specify the premium rate (rate of .015 per dollar).

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	M101	26 Country Code Code identifying the country	M 1 ID 2/3
	M102	14 Carriage Value Carriage value expressed in whole units of the standard monetary denomination for the currency specified	O 1 N0 2/8
	M103	74 Declared Value Monetary assigned value expressed in the standard monetary denomination for the currency specified	O 1 N2 2/12
	M104	122 Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	M105	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/3
	M106	61 Free-form Information Free-form information	O 1 AN 1/30
	M107	122 Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	M108	782 Monetary Amount Monetary amount	X 1 R 1/18
	M109	1004 Percent Qualifier Code to qualify percent Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
	M110	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
	M111	1004 Percent Qualifier Code to qualify percent Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
	M112	954 Percentage as Decimal	X 1 R 1/10

Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)

Segment: **DTM** **Date/Time Reference**
Position: 0900
Loop:
Level:
Usage: Optional
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

M	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 3/3
	DTM02	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X 1 DT 8/8
	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
	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 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/3
	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.
- 3 If either N708 or N709 is present, then the other is required.

Semantic Notes:

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

Comments:

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

Data Element Summary

Ref.	Data Element	Name	Attributes	
	N701	Equipment Initial	O	1 AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number		
M	N702	Equipment Number	M	1 AN 1/15
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)		
	N703	Weight	X	1 R 1/10
		Numeric value of weight		
	N704	Weight Qualifier	X	1 ID 1/2
		Code defining the type of weight		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
	N705	Tare Weight	X	1 N0 3/8
		Weight of the equipment		
	N706	Weight Allowance	O	1 N0 2/6
		Allowance made for increased weight due to such factors as snow		
	N707	Dunnage	O	1 N0 1/6
		Weight of material used to protect lading (even bracings, false floors, etc.)		
	N708	Volume	X	1 R 1/8
		Value of volumetric measure		
	N709	Volume Unit Qualifier	X	1 ID 1/1
		Code identifying the volume unit		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
	N710	Ownership Code	O	1 ID 1/1
		Code indicating the relationship of equipment to carrier or ownership of equipment		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
	N711	Equipment Description Code	O	1 ID 2/2
		Code identifying type of equipment used for shipment		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
	N712	Standard Carrier Alpha Code	O	1 ID 2/4
		Standard Carrier Alpha Code		
	N713	Temperature Control	O	1 AN 3/6
		Free-form abbreviation of temperature range or flash-point temperature		
	N714	Position	O	1 AN 1/3
		Relative position of shipment in car, trailer, or container (mutually defined)		
	N715	Equipment Length	O	1 N0 4/5

		Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)		
N716	571	Tare Qualifier Code	X	1 ID 1/1
		Code identifying the type of tare Refer to 005010 Data Element Dictionary for acceptable code values.		
N717	188	Weight Unit Code	O	1 ID 1/1
		Code specifying the weight unit Refer to 005010 Data Element Dictionary for acceptable code values.		
N718	761	Equipment Number Check Digit	O	1 N0 1/1
		Number which designates the check digit applied to a piece of equipment		
N719	56	Type of Service Code	O	1 ID 2/2
		Code specifying extent of transportation service requested Refer to 005010 Data Element Dictionary for acceptable code values.		
N720	65	Height	O	1 R 1/8
		Vertical dimension of an object measured when the object is in the upright position		
N721	189	Width	O	1 R 1/8
		Shorter measurement of the two horizontal dimensions measured with the object in the upright position		
N722	24	Equipment Type	O	1 ID 4/4
		Code identifying equipment type		
N723	140	Standard Carrier Alpha Code	O	1 ID 2/4
		Standard Carrier Alpha Code		
N724	301	Car Type Code	O	1 ID 1/4
		Code specifying type of rail car or intermodal equipment type and its general characteristics		

Segment: **EM** Equipment Characteristics
Position: 1010
Loop: N7 Mandatory
Level:
Usage: Optional
Max Use: 1
Purpose: To send additional information regarding a specific piece of equipment
Syntax Notes: 1 If EM02 is present, then EM01 is required.
2 If EM04 is present, then EM03 is required.
Semantic Notes: 1 EM02 is the maximum load weight.
2 EM04 is the maximum load volume.
3 EM05 is the country of manufacture.
4 EM07 is the last inspection date for convention of safe container.
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
EM01	188	Weight Unit Code Code specifying the weight unit Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/1
EM02	81	Weight Numeric value of weight	O 1 R 1/10
EM03	184	Volume Unit Qualifier Code identifying the volume unit Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/1
EM04	183	Volume Value of volumetric measure	O 1 R 1/8
EM05	26	Country Code Code identifying the country	O 1 ID 2/3
EM06	1429	Construction Type Contains the primary construction material Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/2
EM07	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8

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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data 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 to identify 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 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	VC03	837	Vehicle Type Code Vehicle Type Code for freight rate and claims purposes Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	VC04	838	Dealer Code A code assigned by a manufacturer to identify their dealers	O 1 AN 2/9
	VC05	1	Route Code Mutually defined route code	O 1 AN 1/13
	VC06	839	Bay Location Location where the releasing agent placed the motor vehicle	O 1 AN 1/6
	VC07	833	Automotive Manufacturers Code Code (ARR) used to identify vehicle manufacturer	O 1 ID 2/2
	VC08	308	Damage Exception Indicator Code to indicate whether damage is being reported to a vehicle in this transaction set Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	VC09	835	Supplemental Inspection Code A code to indicate a supplemental inspection Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	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
	VC11	877	Vessel Stowage Location Location of cargo stowed on board an ocean vessel	O 1 AN 1/12
	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 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	VC13	310	Location Identifier Code which identifies a specific location	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.

Data Element Summary

M	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>	
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
	N101	98	Entity Identifier Code	M 1 ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	
	N102	93	Name	X 1 AN 1/60
			Free-form name	
	N103	66	Identification Code Qualifier	X 1 ID 1/2
			Code designating the system/method of code structure used for Identification Code (67) Refer to 005010 Data Element Dictionary for acceptable code values.	
	N104	67	Identification Code	X 1 AN 2/80
			Code identifying a party or other code	
	N105	706	Entity Relationship Code	O 1 ID 2/2
			Code describing entity relationship Refer to 005010 Data Element Dictionary for acceptable code values.	
	N106	98	Entity Identifier Code	O 1 ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	

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

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>	<u>Name</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 If N406 is present, then N405 is required.
- 3 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 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N401	19	City Name Free-form text for city name	O 1 AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	X 1 ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
N404	26	Country Code Code identifying the country	X 1 ID 2/3
N405	309	Location Qualifier Code identifying type of location Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
N406	310	Location Identifier Code which identifies a specific location	O 1 AN 1/30
N407	1715	Country Subdivision Code Code identifying the country subdivision	X 1 ID 1/3

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: 1 Only one of H301 or H302 may be present.
Semantic Notes:
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
H301	152	Special Handling Code Code specifying special transportation handling instructions Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/3
H302	153	Special Handling Description Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate	X 1 AN 2/30
H303	241	Protective Service Code Code specifying perishable protective service- rail carriers only Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/4
H304	242	Vent Instruction Code Code specifying vent instructions Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/7
H305	257	Tariff Application Code Code indicating to which traffic a tariff applies Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1

Segment: **M7 Seal Numbers**
Position: 1300
Loop: N7 Mandatory
Level:
Usage: Optional
Max Use: 5
Purpose: To record seal numbers used and the organization that applied the seals
Syntax Notes:
Semantic Notes:
Comments: 1 M705 indicates the name of the organization which applied the seal(s).

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
M	M701	225	Seal Number Unique number on seal used to close a shipment	M 1 AN 2/15
	M702	225	Seal Number Unique number on seal used to close a shipment	O 1 AN 2/15
	M703	225	Seal Number Unique number on seal used to close a shipment	O 1 AN 2/15
	M704	225	Seal Number Unique number on seal used to close a shipment	O 1 AN 2/15
	M705	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/3

Segment: N5 Equipment Ordered
Position: 1400
Loop: N7 Mandatory
Level:
Usage: Optional
Max Use: 1
Purpose: To specify carrier equipment
Syntax Notes: 1 If either N507 or N508 is present, then the other is required.
Semantic Notes:
Comments: 1 N506 is expressed in inches.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N501	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
N502	233	Weight Capacity Capacity of car ordered (stated in 1000 pound units or 1000 kilogram units)	O 1 N0 2/3
N503	203	Cubic Capacity Capacity of car ordered (cubic feet unless otherwise specified)	O 1 N0 2/5
N504	301	Car Type Code Code specifying type of rail car or intermodal equipment type and its general characteristics	O 1 ID 1/4
N505	216	Metric Qualifier Code used to indicate that measurements are given in metric units Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
N506	65	Height Vertical dimension of an object measured when the object is in the upright position	O 1 R 1/8
N507	643	Lading Percentage Commodity percentage for rating	X 1 N2 2/4
N508	644	Lading Percent Qualifier Code identifying type of lading percentage Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/1
N509	40	Equipment Description Code Code identifying type of equipment used for shipment Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2

Segment: **IC Intermodal Chassis Equipment**
Position: 1500
Loop: N7 Mandatory
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the chassis equipment details in terms of identifying numbers, weights, and ownership
Syntax Notes: 1 If either IC03 or IC04 is present, then the other is required.
Semantic Notes: 1 IC05 is the chassis owner.
2 IC07 is the equipment lessee.
3 IC09 is the equipment check digit for the equipment number in IC02.
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>	
M	IC01	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number	M	1 AN 1/4
M	IC02	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
	IC03	167	Tare Weight Weight of the equipment	X	1 N0 3/8
	IC04	571	Tare Qualifier Code Code identifying the type of tare Refer to 005010 Data Element Dictionary for acceptable code values.	X	1 ID 1/1
	IC05	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	1 ID 2/4
	IC06	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
	IC07	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	1 ID 2/4
	IC08	845	Chassis Type Code identifying type of chassis Refer to 005010 Data Element Dictionary for acceptable code values.	O	1 ID 2/2
	IC09	761	Equipment Number Check Digit Number which designates the check digit applied to a piece of equipment	O	1 N0 1/1

Segment: **IM** Intermodal Movement Information
Position: 1600
Loop: N7 Mandatory
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the overall movement of a shipment
Syntax Notes:
Semantic Notes: 1 IM03 is required if IM02 is "IP" or "XP".
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
IM01	533	Water Movement Code Code indicating type of water movement Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
IM02	152	Special Handling Code Code specifying special transportation handling instructions Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/3
IM03	534	Inland Transportation Code Code identifying inland transportation operations and movements Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2

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.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	M1201	581 Customs Entry Type Code Code defining the type of entry assigned by U.S. Customs	M 1 ID 2/2
	M1202	601 Customs Entry Number Automated Commercial System Code Furnished by U.S. Customs Service	X 1 AN 1/15
	M1203	310 Location Identifier Code which identifies a specific location	O 1 AN 1/30
	M1204	310 Location Identifier Code which identifies a specific location	O 1 AN 1/30
	M1205	602 Customs Shipment Value Customs value in whole dollars	O 1 AN 2/8
	M1206	603 In-bond Control Number Currently assigned control number for in-bond movement	X 1 AN 1/25
	M1207	140 Standard Carrier Alpha Code Standard Carrier Alpha Code	O 1 ID 2/4
	M1208	128 Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/3
	M1209	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50
	M1210	91 Transportation Method/Type Code Code specifying the method or type of transportation for the shipment Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
	M1211	182 Vessel Name Name of ship as documented in "Lloyd's Register of Ships"	X 1 AN 2/28

Segment: **E1** Empty Car Disposition - Pended Destination Consignee
Position: 1710
Loop: E1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To identify the party receiving the empty car
Syntax Notes: 1 If either E102 or E103 is present, then the other is required.
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	E101	93	Name Free-form name	M 1 AN 1/60
	E102	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
	E103	67	Identification Code Code identifying a party or other code	X 1 AN 2/80

Segment: **E4** Empty Car Disposition - Pended Destination City
Position: 1720
Loop: E1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of named party receiving the empty car
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	E401	19 City Name Free-form text for city name	M 1 AN 2/30
M	E402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	M 1 ID 2/2
	E403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
	E404	26 Country Code Code identifying the country	O 1 ID 2/3

Segment: **E5** Empty Car Disposition - Pended Destination Route
Position: 1730
Loop: E1 Optional
Level:
Usage: Optional
Max Use: 13
Purpose: To specify the routing of the empty car
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
M	E501	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	M 1 ID 2/4
M	E502	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 1/2
	E503	19	City Name Free-form text for city name	O 1 AN 2/30
	E504	154	Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O 1 ID 6/9

Segment: **PI Price Authority Identification**
Position: 1740
Loop: E1 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.
- 6 PI12 is the effective date.
- 7 PI13 is the expiration date.

Comments:

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	PI01	128 Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	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	M 1 AN 1/50
	PI03	436 Primary Publication Authority Code Code indicating type of external reference Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	PI04	930 Regulatory Agency Code Code relating to the regulatory agency governing the price reference	O 1 ID 3/5
	PI05	168 Tariff Agency Code Code defining the tariff bureau or tariff publishing agent that governs the rates applied to this shipment	O 1 ID 1/4
	PI06	965 Issuing Carrier Identifier Identification assigned by issuing carrier	O 1 AN 1/10
	PI07	660 Contract Suffix Used to identify a type of contract	O 1 AN 1/2
	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	O 1 AN 1/16
	PI09	173 Tariff Supplement Identifier Identifier for the tariff supplement which contains the rate used	O 1 AN 1/4
	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
	PI11	660 Contract Suffix Used to identify a type of contract	O 1 AN 1/2
	PI12	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
	PI13	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
	PI14	629 Alternation Precedence Code	O 1 ID 1/1

Code identifying the priority of rate application when two or more rates apply to a given movement; if rate application includes two or more rates of the same value for this element, individual carrier rules and procedures shall govern
Refer to 005010 Data Element Dictionary for acceptable code values.

PI15 629 Alternation Precedence Code O 1 ID 1/1

Code identifying the priority of rate application when two or more rates apply to a given movement; if rate application includes two or more rates of the same value for this element, individual carrier rules and procedures shall govern
Refer to 005010 Data Element Dictionary for acceptable code values.

PI16 284 Service Level Code O 1 ID 2/2

Code indicating the level of transportation service or the billing service offered by the transportation carrier
Refer to 005010 Data Element Dictionary for acceptable code values.

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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 GA02 contains the Canadian Grain Commission Commodity Code for terminal elevator accounting. 2 GA05 is used for grain block number.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
GA01	1275	Fumigated/Cleaned Indicator	O 1 ID 1/1
		Code indicating whether product has been fumigated and/or cleaned Refer to 005010 Data Element Dictionary for acceptable code values.	
GA02	22	Commodity Code	O 1 AN 1/30
		Code describing a commodity or group of commodities	
GA03	1576	Inspected/Weighed Indicator Code	O 1 ID 1/2
		Code indicating whether product has been inspected and/or weighed Refer to 005010 Data Element Dictionary for acceptable code values.	
GA04	128	Reference Identification Qualifier	X 1 ID 2/3
		Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	
GA05	127	Reference Identification	X 1 AN 1/50
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
GA06	642	Week	O 1 N0 6/6
		Week expressed as year/week (CCYYWW), where week is a number between 01 and 53 inclusive	
GA07	899	Unload Terminal Elevator Code	O 1 ID 3/4
		Code specifying the unloading terminal elevator at grain exporting terminals	
GA08	373	Date	O 1 DT 8/8
		Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	
GA09	1470	Number	O 1 N0 1/9
		A generic number	
GA10	1276	Machine Separable Indicator Code	O 1 ID 2/2
		Canadian Grain Commission grain code identifying the type of grain that must	

		be separated			
GA11	1277	Canadian Wheat Board (CWB) Marketing Class Code	O	1	ID 1/1
		Code identifying the Canadian Wheat Board market class of the grain Refer to 005010 Data Element Dictionary for acceptable code values.			
GA12	1278	Canadian Wheat Board (CWB) Marketing Class Type Code	O	1	ID 1/1
		Code identifying Canadian Wheat Board market class type Refer to 005010 Data Element Dictionary for acceptable code values.			
GA13	1073	Yes/No Condition or Response Code	O	1	ID 1/1
		Code indicating a Yes or No condition or response Refer to 005010 Data Element Dictionary for acceptable code values.			
GA14	310	Location Identifier	X	1	AN 1/30
		Code which identifies a specific location			
GA15	156	State or Province Code	X	1	ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency			
GA16	1004	Percent Qualifier	X	1	ID 1/2
		Code to qualify percent Refer to 005010 Data Element Dictionary for acceptable code values.			
GA17	954	Percentage as Decimal	X	1	R 1/10
		Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)			
GA18	1073	Yes/No Condition or Response Code	O	1	ID 1/1
		Code indicating a Yes or No condition or response Refer to 005010 Data Element Dictionary for acceptable code values.			

Segment: **REF** Reference Information
Position: 1770
Loop: REF Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50
	REF03	352	Description A free-form description to clarify the related data elements and their content	X 1 AN 1/80
	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O 1
M	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/50
	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	X ID 2/3
	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50
	C04005	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	X ID 2/3
	C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50

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

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

Semantic Notes:

- 1 N1009 is the U.S. Customs bar code number for line release.
- 2 N1011 is the country of the manufacturer of the goods.
- 3 N1012 is the country of the final destination of the goods.
- 4 N1013 is the currency of the value of N1006.

Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
N1001	380	Quantity Numeric value of quantity	O 1 R 1/15
N1002	369	Free-form Description Free-form descriptive text	O 1 AN 1/45
N1003	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O 1 AN 1/48
N1004	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/1
N1005	22	Commodity Code Code describing a commodity or group of commodities	X 1 AN 1/30
N1006	602	Customs Shipment Value Customs value in whole dollars	X 1 AN 2/8
N1007	188	Weight Unit Code Code specifying the weight unit Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/1
N1008	81	Weight Numeric value of weight	X 1 R 1/10
N1009	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O 1 AN 1/50
N1010	599	Manifest Unit Code Code defining the smallest package unit for the bill of lading	O 1 ID 1/3
N1011	26	Country Code Code identifying the country	O 1 ID 2/3
N1012	26	Country Code Code identifying the country	O 1 ID 2/3
N1013	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified	X 1 ID 3/3

Segment: **N1 Party Identification**
Position: 1790
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.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/3
	N102	93 Name Free-form name	X 1 AN 1/60
	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
	N104	67 Identification Code Code identifying a party or other code	X 1 AN 2/80
	N105	706 Entity Relationship Code Code describing entity relationship Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	N106	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/3

Segment: N3 Party Location
Position: 1800
Loop: N1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>	<u>Name</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: 1820
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 If N406 is present, then N405 is required.
- 3 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 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N401	19	City Name Free-form text for city name	O 1 AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	X 1 ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
N404	26	Country Code Code identifying the country	X 1 ID 2/3
N405	309	Location Qualifier Code identifying type of location Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
N406	310	Location Identifier Code which identifies a specific location	O 1 AN 1/30
N407	1715	Country Subdivision Code Code identifying the country subdivision	X 1 ID 1/3

Segment: **NA** Cross-Reference Equipment
Position: 1850
Loop:
Level:
Usage: Optional
Max Use: 10
Purpose: To cross-reference additional equipment to a primary piece of equipment
Syntax Notes: 1 If NA01 is present, then NA02 is required.
Semantic Notes: 1 NA07 is the owner's Standard Carrier Alpha Code (SCAC) code.
2 NA11 indicates the equipment damage status. A "Y" indicates equipment is damaged; an "N" indicates equipment is not damaged.
3 NA12 is the check digit for the equipment number in NA04.
Comments: 1 NA03 contains the equipment initial of an associated shipment and is required by rail. If unknown, use NONZ for van or NONU for container.
2 NA04 contains the equipment number of an associated shipment.
3 NA09 is the Standard Carrier Alpha Code (SCAC) code of the operator of the equipment.

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
NA01	128	Reference Identification Qualifier	O 1 ID 2/3
		Code qualifying the Reference Identification	
		Refer to 005010 Data Element Dictionary for acceptable code values.	
NA02	127	Reference Identification	X 1 AN 1/50
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
M	NA03	206 Equipment Initial	M 1 AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number	
M	NA04	207 Equipment Number	M 1 AN 1/15
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
NA05	231	Cross Reference Type Code	O 1 ID 1/1
		Code defining relationship of equipment to equipment cross-referenced	
		Refer to 005010 Data Element Dictionary for acceptable code values.	
NA06	219	Position	O 1 AN 1/3
		Relative position of shipment in car, trailer, or container (mutually defined)	
NA07	140	Standard Carrier Alpha Code	O 1 ID 2/4
		Standard Carrier Alpha Code	
NA08	567	Equipment Length	O 1 N0 4/5
		Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)	
NA09	140	Standard Carrier Alpha Code	O 1 ID 2/4
		Standard Carrier Alpha Code	
NA10	845	Chassis Type	O 1 ID 2/2
		Code identifying type of chassis	
		Refer to 005010 Data Element Dictionary for acceptable code values.	
NA11	1073	Yes/No Condition or Response Code	O 1 ID 1/1
		Code indicating a Yes or No condition or response	
		Refer to 005010 Data Element Dictionary for acceptable code values.	
NA12	761	Equipment Number Check Digit	O 1 N0 1/1
		Number which designates the check digit applied to a piece of equipment	

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

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

Comments:

- 1 F905 is the freight station accounting code of the city named in F906.

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u> <u>Name</u>		
F901	573 Freight Station Accounting Code	O	1 ID 1/5
	Code (Freight Station Accounting) (AAR Managed Code for Locations)		
M	F902 19 City Name	M	1 AN 2/30
	Free-form text for city name		
M	F903 156 State or Province Code	M	1 ID 2/2
	Code (Standard State/Province) as defined by appropriate government agency		
	F904 26 Country Code	O	1 ID 2/3
	Code identifying the country		
	F905 573 Freight Station Accounting Code	O	1 ID 1/5
	Code (Freight Station Accounting) (AAR Managed Code for Locations)		
	F906 19 City Name	O	1 AN 2/30
	Free-form text for city name		
	F907 156 State or Province Code	O	1 ID 2/2
	Code (Standard State/Province) as defined by appropriate government agency		
	F908 154 Standard Point Location Code	O	1 ID 6/9
	Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city		
	F909 116 Postal Code	O	1 ID 3/15
	Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
	F910 154 Standard Point Location Code	O	1 ID 6/9
	Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city		
	F911 116 Postal Code	O	1 ID 3/15
	Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
	F912 26 Country Code	O	1 ID 2/3
	Code identifying the country		

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

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

Comments:

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

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
	D901	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	O 1 ID 1/5
M	D902	19	City Name Free-form text for city name	M 1 AN 2/30
M	D903	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	M 1 ID 2/2
	D904	26	Country Code Code identifying the country	O 1 ID 2/3
	D905	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	O 1 ID 1/5
	D906	19	City Name Free-form text for city name	O 1 AN 2/30
	D907	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O 1 ID 2/2
	D908	154	Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O 1 ID 6/9
	D909	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
	D910	154	Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O 1 ID 6/9
	D911	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
	D912	26	Country Code Code identifying the country	O 1 ID 2/3

Segment: **N1 Party Identification**
Position: 2100
Loop: N1 Mandatory
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/3
	N102	93 Name Free-form name	X 1 AN 1/60
	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
	N104	67 Identification Code Code identifying a party or other code	X 1 AN 2/80
	N105	706 Entity Relationship Code Code describing entity relationship Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	N106	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/3

Segment: N2 Additional Name Information
Position: 2150
Loop: N1 Mandatory
Level:
Usage: Optional
Max Use: 2
Purpose: To specify additional names
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
M	N201	93	Name Free-form name	M 1 AN 1/60
	N202	93	Name Free-form name	O 1 AN 1/60

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
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: 2300
Loop: N1 Mandatory
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 If N406 is present, then N405 is required.
- 3 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 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N401	19	City Name Free-form text for city name	O 1 AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	X 1 ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
N404	26	Country Code Code identifying the country	X 1 ID 2/3
N405	309	Location Qualifier Code identifying type of location Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
N406	310	Location Identifier Code which identifies a specific location	O 1 AN 1/30
N407	1715	Country Subdivision Code Code identifying the country subdivision	X 1 ID 1/3

Segment: **REF** Reference Information
Position: 2350
Loop: N1 Mandatory
Level:
Usage: Optional
Max Use: 2
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50
	REF03	352	Description A free-form description to clarify the related data elements and their content	X 1 AN 1/80
	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O 1
M	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/50
	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	X ID 2/3
	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50
	C04005	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	X ID 2/3
	C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50

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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data 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 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
	PER02	93	Name Free-form name	O 1 AN 1/60
	PER03	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER04	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER05	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER06	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER07	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER08	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	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

Ref.	Data				
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>	
M	BL01	747	Rebill Reason Code	M	1 ID 2/2
			Code identifying reason for rebill		
			Refer to 005010 Data Element Dictionary for acceptable code values.		
	BL02	573	Freight Station Accounting Code	X	1 ID 1/5
			Code (Freight Station Accounting) (AAR Managed Code for Locations)		
	BL03	573	Freight Station Accounting Code	X	1 ID 1/5
			Code (Freight Station Accounting) (AAR Managed Code for Locations)		
	BL04	154	Standard Point Location Code	O	1 ID 6/9
			Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city		
	BL05	19	City Name	X	1 AN 2/30
			Free-form text for city name		
	BL06	156	State or Province Code	O	1 ID 2/2
			Code (Standard State/Province) as defined by appropriate government agency		
	BL07	26	Country Code	O	1 ID 2/3
			Code identifying the country		
	BL08	154	Standard Point Location Code	O	1 ID 6/9
			Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city		
	BL09	19	City Name	X	1 AN 2/30
			Free-form text for city name		
	BL10	156	State or Province Code	O	1 ID 2/2

		Code (Standard State/Province) as defined by appropriate government agency		
BL11	26	Country Code	O	1 ID 2/3
		Code identifying the country		
BL12	140	Standard Carrier Alpha Code	O	1 ID 2/4
		Standard Carrier Alpha Code		
BL13	140	Standard Carrier Alpha Code	O	1 ID 2/4
		Standard Carrier Alpha Code		
BL14	140	Standard Carrier Alpha Code	O	1 ID 2/4
		Standard Carrier Alpha Code		
BL15	140	Standard Carrier Alpha Code	O	1 ID 2/4
		Standard Carrier Alpha Code		
BL16	140	Standard Carrier Alpha Code	O	1 ID 2/4
		Standard Carrier Alpha Code		
BL17	140	Standard Carrier Alpha Code	O	1 ID 2/4
		Standard Carrier Alpha Code		

Segment: **S1** Stop-off Name
Position: 4300
Loop: S1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To identify a stop-off party
Syntax Notes: 1 If either S103 or S104 is present, then the other is required.
Semantic Notes: 1 S105 will contain the railroad initial responsible for this stop.
Comments:

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
M	S101	165 Stop Sequence Number Identifying number for the specific stop and the sequence in which the stop is to be performed	M 1 N0 1/3
M	S102	93 Name Free-form name	M 1 AN 1/60
	S103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
	S104	67 Identification Code Code identifying a party or other code	X 1 AN 2/80
	S105	140 Standard Carrier Alpha Code Standard Carrier Alpha Code	O 1 ID 2/4
M	S106	190 Accomplish Code Code indicating the status of a specified stop Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 1/1

Segment: **S2** Stop-off Address
Position: 4400
Loop: S1 Optional
Level:
Usage: Optional
Max Use: 2
Purpose: To specify the address of the stop-off party
Syntax Notes:
Semantic Notes:
Comments: 1 S201 contains the same stop sequence number used on a corresponding S1 Segment.

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
M	S201	165	Stop Sequence Number Identifying number for the specific stop and the sequence in which the stop is to be performed	M 1 N0 1/3
M	S202	166	Address Information Address information	M 1 AN 1/55
	S203	166	Address Information Address information	O 1 AN 1/55

Segment: **S9** Stop-off Station
Position: 4480
Loop: S1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify location details for a stop-off
Syntax Notes: 1 If either S907 or S908 is present, then the other is required.
Semantic Notes:
Comments: 1 S901 contains the same number used on a corresponding S1 Segment.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	S901	165	Stop Sequence Number Identifying number for the specific stop and the sequence in which the stop is to be performed	M 1 N0 1/3
	S902	154	Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O 1 ID 6/9
M	S903	19	City Name Free-form text for city name	M 1 AN 2/30
M	S904	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	M 1 ID 2/2
	S905	26	Country Code Code identifying the country	O 1 ID 2/3
M	S906	163	Stop Reason Code Code specifying the reason for the stop Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
	S907	309	Location Qualifier Code identifying type of location Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
	S908	310	Location Identifier Code which identifies a specific location	X 1 AN 1/30

Segment: **N1 Party Identification**
Position: 4490
Loop: S1 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.

Data Element Summary

M	Ref.	Data	Attributes	
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
	N101	98	Entity Identifier Code	M 1 ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	
	N102	93	Name	X 1 AN 1/60
			Free-form name	
	N103	66	Identification Code Qualifier	X 1 ID 1/2
			Code designating the system/method of code structure used for Identification Code (67) Refer to 005010 Data Element Dictionary for acceptable code values.	
	N104	67	Identification Code	X 1 AN 2/80
			Code identifying a party or other code	
	N105	706	Entity Relationship Code	O 1 ID 2/2
			Code describing entity relationship Refer to 005010 Data Element Dictionary for acceptable code values.	
	N106	98	Entity Identifier Code	O 1 ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	

Segment: N2 Additional Name Information
Position: 4500
Loop: S1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify additional names
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data		Attributes
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N201	93	Name Free-form name	M 1 AN 1/60
	N202	93	Name Free-form name	O 1 AN 1/60

Segment: N3 Party Location
Position: 4510
Loop: S1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>	<u>Name</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: 4520
Loop: S1 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 If N406 is present, then N405 is required.
- 3 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 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N401	19	City Name Free-form text for city name	O 1 AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	X 1 ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
N404	26	Country Code Code identifying the country	X 1 ID 2/3
N405	309	Location Qualifier Code identifying type of location Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
N406	310	Location Identifier Code which identifies a specific location	O 1 AN 1/30
N407	1715	Country Subdivision Code Code identifying the country subdivision	X 1 ID 1/3

Segment: **PER** Administrative Communications Contact
Position: 4530
Loop: S1 Optional
Level:
Usage: Optional
Max Use: 1
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

	<u>Ref. Des.</u>	<u>Data 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 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
	PER02	93	Name Free-form name	O 1 AN 1/60
	PER03	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER04	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER05	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER06	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER07	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER08	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	O 1 AN 1/20

Segment: **R2** **Route Information**
Position: 4600
Loop:
Level:
Usage: Optional
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:

Data Element Summary

Ref.	Data Element	Name	Attributes
M	R201	140 Standard Carrier Alpha Code Standard Carrier Alpha Code	M 1 ID 2/4
M	R202	133 Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 1/2
	R203	19 City Name Free-form text for city name	O 1 AN 2/30
	R204	154 Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O 1 ID 6/9
	R205	177 Intermodal Service Code Code identifying the Intermodal Service Plan	O 1 ID 1/2
	R206	91 Transportation Method/Type Code Code specifying the method or type of transportation for the shipment Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/2
	R207	296 Intermediate Switch Carrier Code defining a road which neither originates nor terminates the shipment but provides a switching service between two roadhaul rail carriers (SCAC code for rail switch carrier)	X 1 ID 2/4
	R208	296 Intermediate Switch Carrier Code defining a road which neither originates nor terminates the shipment but provides a switching service between two roadhaul rail carriers (SCAC code for rail switch carrier)	O 1 ID 2/4
	R209	76 Invoice Number Identifying number assigned by issuer	O 1 AN 1/22
	R210	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
	R211	369 Free-form Description Free-form descriptive text	O 1 AN 1/45
	R212	56 Type of Service Code Code specifying extent of transportation service requested Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	R213	742 Route Description Point to point routing description	O 1 AN 1/35

Segment: **R9** **Route Code Identification**
Position: 4800
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the route using a single code
Syntax Notes: 1 If R909 is present, then R905 is required.
Semantic Notes: 1 R904 is used to identify the Standard Carrier Alpha Code (SCAC) of the delivery switch carrier.
2 R906 is the route source.
3 If R907 is "Y", then this is a pricing (revenue) route. If "N", then this is an operating route.
4 If R908 is "Y", then this is a local move. If "N", then this is an interline move.
5 R909 is the new route code of the expired route code in R901. If used R905 must = "E"

Comments:

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	R901	1	Route Code Mutually defined route code	M 1 AN 1/13
	R902	192	Agent/Shipper Routing Code Code identifying source of routing specification Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	R903	177	Intermodal Service Code Code identifying the Intermodal Service Plan	O 1 ID 1/2
	R904	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O 1 ID 2/4
	R905	306	Action Code Code indicating type of action Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
	R906	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O 1 ID 2/4
	R907	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	R908	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	R909	1	Route Code Mutually defined route code	O 1 AN 1/13

Segment: **E1** Empty Car Disposition - Pended Destination Consignee
Position: 4900
Loop: E1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To identify the party receiving the empty car
Syntax Notes: 1 If either E102 or E103 is present, then the other is required.
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	E101	93 Name Free-form name	M 1 AN 1/60
	E102	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
	E103	67 Identification Code Code identifying a party or other code	X 1 AN 2/80

Segment: **E4** Empty Car Disposition - Pended Destination City
Position: 5000
Loop: E1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of named party receiving the empty car
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	E401	19 City Name Free-form text for city name	M 1 AN 2/30
M	E402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	M 1 ID 2/2
	E403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
	E404	26 Country Code Code identifying the country	O 1 ID 2/3

Segment: **E5** Empty Car Disposition - Pended Destination Route
Position: 5100
Loop: E1 Optional
Level:
Usage: Optional
Max Use: 13
Purpose: To specify the routing of the empty car
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
M	E501	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	M 1 ID 2/4
M	E502	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 1/2
	E503	19	City Name Free-form text for city name	O 1 AN 2/30
	E504	154	Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O 1 ID 6/9

Segment: **PI Price Authority Identification**
Position: 5110
Loop: E1 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.
- 6 PI12 is the effective date.
- 7 PI13 is the expiration date.

Comments:

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	PI01	128 Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	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	M 1 AN 1/50
	PI03	436 Primary Publication Authority Code Code indicating type of external reference Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	PI04	930 Regulatory Agency Code Code relating to the regulatory agency governing the price reference	O 1 ID 3/5
	PI05	168 Tariff Agency Code Code defining the tariff bureau or tariff publishing agent that governs the rates applied to this shipment	O 1 ID 1/4
	PI06	965 Issuing Carrier Identifier Identification assigned by issuing carrier	O 1 AN 1/10
	PI07	660 Contract Suffix Used to identify a type of contract	O 1 AN 1/2
	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	O 1 AN 1/16
	PI09	173 Tariff Supplement Identifier Identifier for the tariff supplement which contains the rate used	O 1 AN 1/4
	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
	PI11	660 Contract Suffix Used to identify a type of contract	O 1 AN 1/2
	PI12	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
	PI13	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
	PI14	629 Alternation Precedence Code	O 1 ID 1/1

Code identifying the priority of rate application when two or more rates apply to a given movement; if rate application includes two or more rates of the same value for this element, individual carrier rules and procedures shall govern
Refer to 005010 Data Element Dictionary for acceptable code values.

PI15 629 Alternation Precedence Code O 1 ID 1/1

Code identifying the priority of rate application when two or more rates apply to a given movement; if rate application includes two or more rates of the same value for this element, individual carrier rules and procedures shall govern
Refer to 005010 Data Element Dictionary for acceptable code values.

PI16 284 Service Level Code O 1 ID 2/2

Code indicating the level of transportation service or the billing service offered by the transportation carrier
Refer to 005010 Data Element Dictionary for acceptable code values.

Segment: **H3** Special Handling Instructions
Position: 5200
Loop:
Level:
Usage: Optional
Max Use: 20
Purpose: To specify special handling instructions in coded or free-form format
Syntax Notes: 1 Only one of H301 or H302 may be present.
Semantic Notes:
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
H301	152	Special Handling Code Code specifying special transportation handling instructions Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/3
H302	153	Special Handling Description Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate	X 1 AN 2/30
H303	241	Protective Service Code Code specifying perishable protective service- rail carriers only Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/4
H304	242	Vent Instruction Code Code specifying vent instructions Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/7
H305	257	Tariff Application Code Code indicating to which traffic a tariff applies Refer to 005010 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.
- 3 If PS14 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.
- 3 PS11 identifies the location of the heater. A "Y" indicates the heater is ceiling-mounted; an "N" indicates the heater is in the body.
- 4 PS12 identifies whether or not the commodity is a food product. A "Y" indicates the commodity is a food product; an "N" indicates it is a non-food product.
- 5 PS13 indicates the amount of doorway space for the full width of the car. A "Y" indicates the doorway space is not less than 30 inches for the full width of the car; an "N" indicates it is less than 30 inches.
- 6 PS14 is the set temperature at service origin.

Comments:

- 1 PS05 through PS08 are used to specify the station to which the temperature applies. PS05 and PS06 are preferred over PS07 and PS08.
- 2 PS09 is the weight of body ice in hundreds.

Data Element Summary

Ref.	Data Des.	Element	Name	Attributes	
M	PS01	746	Protective Service Rule Code 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 Refer to 005010 Data Element Dictionary for acceptable code values.	M	1 ID 1/4
	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 005010 Data Element Dictionary for acceptable code values.	X	1 ID 2/2
	PS04	408	Temperature Temperature	X	1 R 1/4
	PS05	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	O	1 ID 2/4
	PS06	573	Freight Station Accounting Code Code (Freight Station Accounting) (AAR Managed Code for Locations)	O	1 ID 1/5
	PS07	19	City Name Free-form text for city name	O	1 AN 2/30
	PS08	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O	1 ID 2/2
	PS09	81	Weight Numeric value of weight	O	1 R 1/10
	PS10	745	Pre-Cooled (Rule 710) Code Code indicating whether or not the shipment was precooled per Association of American Railroads Protective Service Rule 710 Refer to 005010 Data Element Dictionary for acceptable code values.	O	1 ID 1/1
	PS11	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response	O	1 ID 1/1

		Refer to 005010 Data Element Dictionary for acceptable code values.		
PS12	1073	Yes/No Condition or Response Code	O	1 ID 1/1
		Code indicating a Yes or No condition or response		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
PS13	1073	Yes/No Condition or Response Code	O	1 ID 1/1
		Code indicating a Yes or No condition or response		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
PS14	408	Temperature	X	1 R 1/4
		Temperature		

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

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LX01	554	Assigned Number Number assigned for differentiation within a transaction set	M 1 N0 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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
L501	213	Lading Line Item Number Sequential line number for a lading item	O 1 N0 1/3
L502	79	Lading Description Description of an item as required for rating and billing purposes	O 1 AN 1/50
L503	22	Commodity Code Code describing a commodity or group of commodities	X 1 AN 1/30
L504	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/1
L505	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 AN 3/5
L506	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	X 1 AN 1/48
L507	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/2
L508	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/1
L509	22	Commodity Code Code describing a commodity or group of commodities	X 1 AN 1/30
L510	595	Compartment ID Code Code identifying the compartment in a compartmentalized tank car Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1

Segment: **L0** Line Item - Quantity and Weight
Position: 5700
Loop: L0 Optional
Level:
Usage: Optional
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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
L001	213	Lading Line Item Number Sequential line number for a lading item	O 1 N0 1/3
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	X 1 R 1/11
L003	221	Billed/Rated-as Qualifier Code identifying the type of quantity or value on which the rate or item pricing is based Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
L004	81	Weight Numeric value of weight	X 1 R 1/10
L005	187	Weight Qualifier Code defining the type of weight Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
L006	183	Volume Value of volumetric measure	X 1 R 1/8
L007	184	Volume Unit Qualifier Code identifying the volume unit Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/1
L008	80	Lading Quantity Number of units (pieces) of the lading commodity	X 1 N0 1/7
L009	211	Packaging Form Code Code for packaging form of the lading quantity Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 3/3
L010	458	Dunnage Description Material used to protect lading	O 1 AN 2/25
L011	188	Weight Unit Code Code specifying the weight unit Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1

L012	56	Type of Service Code	O	1 ID 2/2
		Code specifying extent of transportation service requested Refer to 005010 Data Element Dictionary for acceptable code values.		
L013	380	Quantity	X	1 R 1/15
		Numeric value of quantity		
L014	211	Packaging Form Code	O	1 ID 3/3
		Code for packaging form of the lading quantity Refer to 005010 Data Element Dictionary for acceptable code values.		
L015	1073	Yes/No Condition or Response Code	X	1 ID 1/1
		Code indicating a Yes or No condition or response Refer to 005010 Data Element Dictionary for acceptable code values.		

Segment: **MEA** Measurements
Position: 5750
Loop: L0 Optional
Level:
Usage: Optional
Max Use: 3
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 Only one of MEA04 or MEA12 may be present.
- 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
- 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
- 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 6 Only one of MEA08 or MEA03 may be present.
- 7 If either MEA11 or MEA12 is present, then the other is required.

Semantic Notes:

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
- 2 MEA11 is the external code list for the unit of measure.
- 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.

Comments:

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

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/3
MEA03	739	Measurement Value The value of the measurement	X 1 R 1/20
MEA04	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X 1
M	C00101	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 005010 Data Element Dictionary for acceptable code values.	M ID 2/2
	C00102	1018 Exponent Power to which a unit is raised	O R 1/15
	C00103	649 Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
	C00104	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 005010 Data Element Dictionary for acceptable code values.	O ID 2/2
	C00105	1018 Exponent Power to which a unit is raised	O R 1/15
	C00106	649 Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
	C00107	355 Unit or Basis for Measurement Code	O ID 2/2

		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 005010 Data Element Dictionary for acceptable code values.		
C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 005010 Data Element Dictionary for acceptable code values.	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 005010 Data Element Dictionary for acceptable code values.	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value Refer to 005010 Data Element Dictionary for acceptable code values.	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined Refer to 005010 Data Element Dictionary for acceptable code values.	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described Refer to 005010 Data Element Dictionary for acceptable code values.	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement Refer to 005010 Data Element Dictionary for acceptable code values.	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list Refer to 005010 Data Element Dictionary for acceptable code values.	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

Segment: **L1 Rate and Charges**
Position: 5800
Loop: L0 Optional
Level:
Usage: Optional
Max Use: 10
Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements

Syntax Notes:
1 If either L102 or L103 is present, then the other is required.
2 At least one of L104 L105 or L106 is required.
3 If either L114 or L115 is present, then the other is required.
4 If either L117 or L118 is present, then the other is required.

Semantic Notes:
1 L119 is the percent used to determine the charge in L104.
2 L120, if used, indicates the currency for all monetary amounts in this L1 segment.
3 L121 is the origin rated as charge amount.

Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
L101	213	Lading Line Item Number Sequential line number for a lading item	O 1 N0 1/3
L102	60	Freight Rate Rate that applies to the specific commodity	X 1 R 1/9
L103	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
L104	58	Amount Charged For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified	X 1 N2 1/15
L105	191	Advances Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified	X 1 N2 1/9
L106	117	Prepaid Amount Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified	X 1 N2 1/15
L107	120	Rate Combination Point Code The code denoting the connecting station for a joint rate obtained by combining two or more published rates which are used for the calculation of transportation charges Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 AN 3/9
L108	150	Special Charge or Allowance Code Code identifying type of special charge or allowance Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 3/3
L109	121	Rate Class Code Code identifying specifically designated class of goods; Note: For international air shipments, see IATA Resolution 600k Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/3
L110	39	Entitlement Code Code identifying entitlement party Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
L111	16	Charge Method of Payment Code defining method of payment	O 1 ID 1/1

		Refer to 005010 Data Element Dictionary for acceptable code values.		
L112	276	Special Charge Description	O	1 AN 2/25
		Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150		
L113	257	Tariff Application Code	O	1 ID 1/1
		Code indicating to which traffic a tariff applies		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
L114	74	Declared Value	X	1 N2 2/12
		Monetary assigned value expressed in the standard monetary denomination for the currency specified		
L115	122	Rate/Value Qualifier	X	1 ID 2/2
		Code qualifying how to extend charges or interpret value		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
L116	372	Lading Liability Code	O	1 ID 1/1
		Code identifying limits of liability		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
L117	220	Billed/Rated-as Quantity	X	1 R 1/11
		Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81		
L118	221	Billed/Rated-as Qualifier	X	1 ID 2/2
		Code identifying the type of quantity or value on which the rate or item pricing is based		
		Refer to 005010 Data Element Dictionary for acceptable code values.		
L119	954	Percentage as Decimal	O	1 R 1/10
		Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)		
L120	100	Currency Code	O	1 ID 3/3
		Code (Standard ISO) for country in whose currency the charges are specified		
L121	610	Amount	O	1 N2 1/15
		Monetary amount		
L122	148	Lading Value	O	1 R 2/9
		Value of shipment for export, expressed in the standard monetary denomination for the currency specified		

Segment: **PI Price Authority Identification**
Position: 5900
Loop: L0 Optional
Level:
Usage: Optional
Max Use: 30
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.
- 6 PI12 is the effective date.
- 7 PI13 is the expiration date.

Comments:

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	PI01	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	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	M 1 AN 1/50
	PI03	436	Primary Publication Authority Code Code indicating type of external reference Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	PI04	930	Regulatory Agency Code Code relating to the regulatory agency governing the price reference	O 1 ID 3/5
	PI05	168	Tariff Agency Code Code defining the tariff bureau or tariff publishing agent that governs the rates applied to this shipment	O 1 ID 1/4
	PI06	965	Issuing Carrier Identifier Identification assigned by issuing carrier	O 1 AN 1/10
	PI07	660	Contract Suffix Used to identify a type of contract	O 1 AN 1/2
	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	O 1 AN 1/16
	PI09	173	Tariff Supplement Identifier Identifier for the tariff supplement which contains the rate used	O 1 AN 1/4
	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
	PI11	660	Contract Suffix Used to identify a type of contract	O 1 AN 1/2
	PI12	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
	PI13	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
	PI14	629	Alternation Precedence Code	O 1 ID 1/1

Code identifying the priority of rate application when two or more rates apply to a given movement; if rate application includes two or more rates of the same value for this element, individual carrier rules and procedures shall govern
Refer to 005010 Data Element Dictionary for acceptable code values.

PI15 629 Alternation Precedence Code O 1 ID 1/1

Code identifying the priority of rate application when two or more rates apply to a given movement; if rate application includes two or more rates of the same value for this element, individual carrier rules and procedures shall govern
Refer to 005010 Data Element Dictionary for acceptable code values.

PI16 284 Service Level Code O 1 ID 2/2

Code indicating the level of transportation service or the billing service offered by the transportation carrier
Refer to 005010 Data Element Dictionary for acceptable code values.

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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
X101	83	Code For Licensing, Certification, Registration, or Accreditation Agency Code identifying a licensing, certification, registration, or accreditation agency. Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/2
X102	50	Export License Number Government assigned identification number for exporter	O 1 AN 6/35
X103	51	Export License Status Code Code defining whether the shipment completes the terms of the license, or the shipment is only a partial delivery relative to the license terms Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
X104	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
X105	52	Export License Symbol Code Code which specifies the export symbol marked on a shipment Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/2
X106	48	Export License Control Code Code indicating the type of control applicable to the export license Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
X107	26	Country Code Code identifying the country	O 1 ID 2/3
X108	141	Schedule B Code Code identifying commodity number established for international statistical purposes	O 1 ID 7/10
X109	210	International/Domestic Code Code indicating international or domestic shipment Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
X110	80	Lading Quantity Number of units (pieces) of the lading commodity	O 1 N0 1/7
X111	148	Lading Value Value of shipment for export, expressed in the standard monetary denomination for the currency specified	O 1 R 2/9
X112	47	Export Filing Key Code Code indicating the type of communications with customs Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
X113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in	O 1 ID 2/2

which a measurement has been taken
Refer to 005010 Data Element Dictionary for acceptable code values.

X114	212	Unit Price	O	1	R 1/17
		Price per unit of product, service, commodity, etc.			
X115	1306	U.S. Government License Type	O	1	AN 1/1
		Code to identify the type of government license involved			
X116	67	Identification Code	O	1	AN 2/80
		Code identifying a party or other code			
X117	310	Location Identifier	O	1	AN 1/30
		Code which identifies a specific location			

Segment: **T1** Transit Inbound Origin
Position: 6100
Loop: T1 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify origin point and waybill references of movement to transit waybill point
Syntax Notes:

- 1 If either T105 or T106 is present, then the other is required.
- 2 If either T110 or T111 is present, then the other is required.

Semantic Notes:

- 1 Related T1, T2, and T3 segments have the same transit sequence number value in the first data element.
- 2 T102 will contain the inbound shipment waybill numbers.
- 3 T103 will contain the inbound shipment waybill date.
- 4 T104 is the Standard Carrier Alpha Code (SCAC) of the origin carrier.
- 5 T105 is the origin station for movement.
- 6 T110 and T111 are used on local transit only, to convey the previous Inbound Transit Bill of Lading Number or Shipment Identification Number.

Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	T101	554 Assigned Number Number assigned for differentiation within a transaction set	M 1 N0 1/6
	T102	186 Waybill Number Carrier accounting number of the waybill for the inbound movement	O 1 N0 1/6
	T103	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
	T104	140 Standard Carrier Alpha Code Standard Carrier Alpha Code	O 1 ID 2/4
	T105	19 City Name Free-form text for city name	X 1 AN 2/30
	T106	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	X 1 ID 2/2
	T107	154 Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O 1 ID 6/9
	T108	229 Transit Registration Number Freight bill or bureau number used to identify a transit shipment	O 1 AN 1/6
	T109	461 Transit Level Code Code indicating level of inbound transit references Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/3
	T110	128 Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/3
	T111	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50

Segment: **T2** Transit Inbound Lading
Position: 6200
Loop: T1 Optional
Level:
Usage: Optional
Max Use: 30
Purpose: To specify lading description, including weight and rate details applying to the associated T1 segment
Syntax Notes: 1 If either T205 or T206 is present, then the other is required.
2 If either T207 or T208 is present, then the other is required.
Semantic Notes: 1 T203 is the transit portion weight from inbound movement.
2 In T209, "City" is used for the combination through-rate city.
3 In T210, "City" is used for the combination paid-in city.
Comments: 1 Related T1, T2, and T3 segments have the same transit sequence number value in the first data element.
2 T205 is the through-freight-rate that applies to the shipment from the point of origin inland movement to the point of destination of the current movement.
3 T207 is the paid-in-rate basis of the paid-in portion of the shipment.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>			
M	T201	554	Assigned Number Number assigned for differentiation within a transaction set	M	1 N0 1/6
	T202	79	Lading Description Description of an item as required for rating and billing purposes	O	1 AN 1/50
	T203	81	Weight Numeric value of weight	O	1 R 1/10
	T204	187	Weight Qualifier Code defining the type of weight Refer to 005010 Data Element Dictionary for acceptable code values.	O	1 ID 1/2
	T205	60	Freight Rate Rate that applies to the specific commodity	X	1 R 1/9
	T206	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 005010 Data Element Dictionary for acceptable code values.	X	1 ID 2/2
	T207	60	Freight Rate Rate that applies to the specific commodity	X	1 R 1/9
	T208	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 005010 Data Element Dictionary for acceptable code values.	X	1 ID 2/2
	T209	19	City Name Free-form text for city name	O	1 AN 2/30
	T210	19	City Name Free-form text for city name	O	1 AN 2/30
	T211	462	Through Surcharge Percent Percentage of through freight charges to be charged extra as a surcharge	O	1 N2 2/4
	T212	463	Paid-In Surcharge Percent Percentage of paid-in freight charges to be charged extra as a surcharge	O	1 N2 2/4

Segment: **T3** Transit Inbound Route

Position: 6300

Loop: T1 Optional

Level:

Usage: Optional

Max Use: 12

Purpose: To specify transit inbound routing, including equipment identifications for associated T1 and T2 segments

Syntax Notes: 1 If either T306 or T307 is present, then the other is required.

Semantic Notes: 1 T306 will contain the equipment initial of the inbound car.

2 T307 will contain the equipment number of the inbound car.

Comments: 1 Related T1, T2, and T3 segments have the same transit sequence number value in the first data element.

2 T304 is the station or city name at which carriers interchange shipments. T304 will contain the Association of American Railroads (AAR) Accounting Rule 260 junction rule.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>			<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	T301	554	Assigned Number Number assigned for differentiation within a transaction set	M	1 N0 1/6
M	T302	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	M	1 ID 2/4
	T303	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement Refer to 005010 Data Element Dictionary for acceptable code values.	O	1 ID 1/2
	T304	19	City Name Free-form text for city name	O	1 AN 2/30
	T305	154	Standard Point Location Code Code (Standard Point Location) defined by National Motor Freight Tariff Association (NMFTA) or the Canadian Transportation Agency (CTA) point development group as the official code assigned to a city or point (for ratemaking purposes) within a city	O	1 ID 6/9
	T306	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number	X	1 AN 1/4
	T307	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	X	1 AN 1/15

Segment: **T6 Transit Inbound Rates**

Position: 6400

Loop: T1 Optional

Level:

Usage: Optional

Max Use: 1

Purpose: To identify the transit inbound prior origin point and waybill reference of movement to the point specified in T1 segment

Syntax Notes: 1 If either T602 or T603 is present, then the other is required.

2 If either T605 or T606 is present, then the other is required.

Semantic Notes: 1 T602 is the through-freight-rate that applies to the shipment from the point of origin of the inland movement to the point of destination of the current billing movement.

2 In T604, "City" is used for the combination through-rate city.

3 T605 is the paid-in-rate basis of the paid-in portion of the shipment.

Comments: 1 T601 must contain the same number that is on the corresponding T1 segment.

2 In T607, "City" is used for the combination paid-in rate city.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	T601	554 Assigned Number Number assigned for differentiation within a transaction set	M 1 N0 1/6
	T602	60 Freight Rate Rate that applies to the specific commodity	X 1 R 1/9
	T603	122 Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	T604	19 City Name Free-form text for city name	O 1 AN 2/30
	T605	60 Freight Rate Rate that applies to the specific commodity	X 1 R 1/9
	T606	122 Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	T607	19 City Name Free-form text for city name	O 1 AN 2/30

Segment: **T8** Free-form Transit Data
Position: 6500
Loop: T1 Optional
Level:
Usage: Optional
Max Use: 99
Purpose: To transmit information in a free-form format relating to a specified transit sequence number

Syntax Notes:

Semantic Notes:

Comments: 1 T801 must contain the same transit sequence number that is on the corresponding T1.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	T801	554	Assigned Number Number assigned for differentiation within a transaction set	M 1 N0 1/6
M	T802	299	Transit Free-form Data Free-form data relative to inbound transit information	M 1 AN 1/80

Segment: **L3 Total Weight and Charges**
Position: 6600
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

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

Semantic Notes:
Comments: 1 L305 is the total charges.

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
L301	81	Weight	X 1 R 1/10
		Numeric value of weight	
L302	187	Weight Qualifier	X 1 ID 1/2
		Code defining the type of weight	
		Refer to 005010 Data Element Dictionary for acceptable code values.	
L303	60	Freight Rate	X 1 R 1/9
		Rate that applies to the specific commodity	
L304	122	Rate/Value Qualifier	X 1 ID 2/2
		Code qualifying how to extend charges or interpret value	
		Refer to 005010 Data Element Dictionary for acceptable code values.	
L305	58	Amount Charged	O 1 N2 1/15
		For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified	
L306	191	Advances	O 1 N2 1/9
		Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified	
L307	117	Prepaid Amount	O 1 N2 1/15
		Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified	
L308	150	Special Charge or Allowance Code	O 1 ID 3/3
		Code identifying type of special charge or allowance	
		Refer to 005010 Data Element Dictionary for acceptable code values.	
L309	183	Volume	X 1 R 1/8
		Value of volumetric measure	
L310	184	Volume Unit Qualifier	X 1 ID 1/1
		Code identifying the volume unit	
		Refer to 005010 Data Element Dictionary for acceptable code values.	
L311	80	Lading Quantity	O 1 N0 1/7
		Number of units (pieces) of the lading commodity	
L312	188	Weight Unit Code	O 1 ID 1/1
		Code specifying the weight unit	
		Refer to 005010 Data Element Dictionary for acceptable code values.	
L313	171	Tariff Number	O 1 AN 1/7

		Standard tariff number for the tariff which governs the rates applied to the commodity item(s)		
L314	74	Declared Value	X	1 N2 2/12
		Monetary assigned value expressed in the standard monetary denomination for the currency specified		
L315	122	Rate/Value Qualifier	X	1 ID 2/2
		Code qualifying how to extend charges or interpret value		
		Refer to 005010 Data Element Dictionary for acceptable code values.		

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

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

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

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data 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 Refer to 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
M	LH102	80	Lading Quantity Number of units (pieces) of the lading commodity	M 1 N0 1/7
	LH103	277	UN/NA Identification Code Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America	O 1 ID 6/6
	LH104	200	Hazardous Materials Page The United Nations page number as required for the international transport of hazardous materials	O 1 AN 1/6
	LH105	22	Commodity Code Code describing a commodity or group of commodities	O 1 AN 1/30
	LH106	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
	LH107	380	Quantity Numeric value of quantity	O 1 R 1/15
	LH108	595	Compartment ID Code Code identifying the compartment in a compartmentalized tank car Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	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 Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	LH110	254	Packing Group Code Code indicating degree of danger in terms of Roman number I, II or III	O 1 ID 1/3
	LH111	1375	Interim Hazardous Material Regulatory Number Identifies the current regulatory version number used for hazardous materials shipments	O 1 AN 1/5

Segment: **LH2 Hazardous Classification Information**

Position: 6900

Loop: LH1 Optional

Level:

Usage: Optional

Max Use: 4

Purpose: To specify the hazardous notation and endorsement information

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

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

Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
LH201	215	Hazardous Classification The hazardous classification corresponding to the shipping name of the hazardous commodity	O 1 ID 1/30
LH202	983	Hazardous Class Qualifier Code qualifying hazardous class Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
LH203	218	Hazardous Placard Notation The placard notation corresponding to the hazard class of the hazardous commodity	O 1 ID 14/40
LH204	222	Hazardous Endorsement The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O 1 ID 4/25
LH205	759	Reportable Quantity Code Code to identify presence of hazardous substance Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
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 Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
LH207	408	Temperature Temperature	X 1 R 1/4
LH208	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
LH209	408	Temperature Temperature	X 1 R 1/4
LH210	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
LH211	408	Temperature Temperature	X 1 R 1/4
LH212	188	Weight Unit Code Code specifying the weight unit	X 1 ID 1/1

Refer to 005010 Data Element Dictionary for acceptable code values.

LH213	267	Net Explosive Quantity	X	1 N0 1/10
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Net weight of the explosive quantity of the hazardous commodity

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

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
LH301	224	Hazardous Material Shipping Name	X 1 AN 1/25
		The proper shipping name of the hazardous commodity as specified by Title 49 Code of Federal Regulations, or the shipping name of the dangerous good as defined in the Canadian Transportation of Dangerous Goods Act and Regulations, or the international regulations as promulgated by the United Nations	
LH302	984	Hazardous Material Shipping Name Qualifier	X 1 ID 1/1
		Qualifier indicating the source (regulatory) of the proper shipping name Refer to 005010 Data Element Dictionary for acceptable code values.	
LH303	985	N.O.S. Indicator Code	O 1 ID 3/3
		Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified Refer to 005010 Data Element Dictionary for acceptable code values.	
LH304	1073	Yes/No Condition or Response Code	O 1 ID 1/1
		Code indicating a Yes or No condition or response Refer to 005010 Data Element Dictionary for acceptable code values.	

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

Position: 7100

Loop: LH1 Optional

Level:

Usage: Optional

Max Use: 20

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

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

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

2 LFH07 indicates transport index of the radioactive material.

3 LFH08 is the date fumigation began.

Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	LFH01	808	Hazardous Material Shipment Information Qualifier Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements Refer to 005010 Data Element Dictionary for acceptable code values.	M	1 ID 3/3
M	LFH02	809	Hazardous Material Shipment Information Specific information required by law for hazardous material shipments	M	1 AN 1/25
	LFH03	809	Hazardous Material Shipment Information Specific information required by law for hazardous material shipments	O	1 AN 1/25
	LFH04	1023	Hazard Zone Code Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone Refer to 005010 Data Element Dictionary for acceptable code values.	O	1 ID 1/1
	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 Refer to 005010 Data Element Dictionary for acceptable code values.	X	1 ID 2/2
	LFH06	380	Quantity Numeric value of quantity	X	1 R 1/15
	LFH07	380	Quantity Numeric value of quantity	O	1 R 1/15
	LFH08	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O	1 DT 8/8

Segment: **LEP** EPA Required Data
Position: 7200
Loop: LH1 Optional
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

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
LEP01	806	EPA Waste Stream Number Code Waste stream number applicable to the movement of hazardous waste as determined by government regulations	O 1 ID 4/6
LEP02	807	Waste Characteristics Code Waste characteristics as defined by regulatory requirements	O 1 ID 12/16
LEP03	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	X 1 ID 2/2
LEP04	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50

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

Syntax Notes:
1 If either LH401 or LH402 is present, then the other is required.
2 If either LH408 or LH412 is present, then the other is required.

Semantic Notes:
1 LH411 is an additional telephone number.

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

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
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	X 1 AN 1/12
LH402	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
LH403	254	Packing Group Code Code indicating degree of danger in terms of Roman number I, II or III	O 1 ID 1/3
LH404	230	Subsidiary Classification Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O 1 ID 1/3
LH405	230	Subsidiary Classification Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O 1 ID 1/3
LH406	230	Subsidiary Classification Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O 1 ID 1/3
LH407	271	Subsidiary Risk Indicator Code identifying the type of subsidiary risk Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/2
LH408	267	Net Explosive Quantity Net weight of the explosive quantity of the hazardous commodity	X 1 N0 1/10
LH409	805	Canadian Hazardous Notation Notation required by Canadian regulatory agencies	O 1 AN 1/25
LH410	986	Special Commodity Indicator Code Code indicating 'Special Commodity' notation on operational waybill as identified by the Transportation of Dangerous Goods Act and Regulation (TDG) Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
LH411	364	Communication Number Complete communications number including country or area code when applicable	O 1 AN 1/256
LH412	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 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2

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

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
LHT01	215	Hazardous Classification The hazardous classification corresponding to the shipping name of the hazardous commodity	O 1 ID 1/30
LHT02	218	Hazardous Placard Notation The placard notation corresponding to the hazard class of the hazardous commodity	O 1 ID 14/40
LHT03	222	Hazardous Endorsement The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O 1 ID 4/25

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	LHR01	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	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 1/50
	LHR03	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8

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

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

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data 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 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
	PER02	93	Name Free-form name	O 1 AN 1/60
	PER03	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER04	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER05	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER06	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER07	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER08	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	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.

Data Element Summary

M	Ref.	Data	Attributes	
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
	N101	98	Entity Identifier Code	M 1 ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	
	N102	93	Name	X 1 AN 1/60
			Free-form name	
	N103	66	Identification Code Qualifier	X 1 ID 1/2
			Code designating the system/method of code structure used for Identification Code (67) Refer to 005010 Data Element Dictionary for acceptable code values.	
	N104	67	Identification Code	X 1 AN 2/80
			Code identifying a party or other code	
	N105	706	Entity Relationship Code	O 1 ID 2/2
			Code describing entity relationship Refer to 005010 Data Element Dictionary for acceptable code values.	
	N106	98	Entity Identifier Code	O 1 ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual Refer to 005010 Data Element Dictionary for acceptable code values.	

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

	Ref. Des.	Data Element	Name	Attributes
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: 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 If N406 is present, then N405 is required.
- 3 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 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N401	19	City Name Free-form text for city name	O 1 AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	X 1 ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
N404	26	Country Code Code identifying the country	X 1 ID 2/3
N405	309	Location Qualifier Code identifying type of location Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 1/2
N406	310	Location Identifier Code which identifies a specific location	O 1 AN 1/30
N407	1715	Country Subdivision Code Code identifying the country subdivision	X 1 ID 1/3

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

	<u>Ref. Des.</u>	<u>Data 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 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
	PER02	93	Name Free-form name	O 1 AN 1/60
	PER03	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER04	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER05	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER06	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER07	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER08	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	LE01	447	Loop Identifier Code	M 1 AN 1/4
			The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE	

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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data 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 005010 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
	PER02	93	Name Free-form name	O 1 AN 1/60
	PER03	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER04	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER05	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER06	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER07	365	Communication Number Qualifier Code identifying the type of communication number Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
	PER08	364	Communication Number Complete communications number including country or area code when applicable	X 1 AN 1/256
	PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	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:**
- 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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
LH201	215	Hazardous Classification The hazardous classification corresponding to the shipping name of the hazardous commodity	O 1 ID 1/30
LH202	983	Hazardous Class Qualifier Code qualifying hazardous class Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
LH203	218	Hazardous Placard Notation The placard notation corresponding to the hazard class of the hazardous commodity	O 1 ID 14/40
LH204	222	Hazardous Endorsement The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O 1 ID 4/25
LH205	759	Reportable Quantity Code Code to identify presence of hazardous substance Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 2/2
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 Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
LH207	408	Temperature Temperature	X 1 R 1/4
LH208	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
LH209	408	Temperature Temperature	X 1 R 1/4
LH210	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 005010 Data Element Dictionary for acceptable code values.	X 1 ID 2/2
LH211	408	Temperature Temperature	X 1 R 1/4
LH212	188	Weight Unit Code Code specifying the weight unit	X 1 ID 1/1

Refer to 005010 Data Element Dictionary for acceptable code values.

LH213	267	Net Explosive Quantity	X	1 N0 1/10
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Net weight of the explosive quantity of the hazardous commodity

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

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	LHR01	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 005010 Data Element Dictionary for acceptable code values.	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 1/50
	LHR03	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8

Segment: **LH6** Hazardous Certification
Position: 8000
Loop:
Level:
Usage: Optional
Max Use: 5
Purpose: To specify the name of the person certifying that the shipment complies with the regulations and/or the actual certification
Syntax Notes: 1 If either LH602 or LH603 is present, then the other is required.
Semantic Notes:
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
LH601	93	Name	O 1 AN 1/60
		Free-form name	
LH602	272	Hazardous Certification Code	X 1 ID 1/1
		Code indicating the form of the hazardous certification	
		Refer to 005010 Data Element Dictionary for acceptable code values.	
LH603	273	Hazardous Certification Declaration	X 1 AN 1/25
		Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations	
LH604	273	Hazardous Certification Declaration	O 1 AN 1/25
		Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations	

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. 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

Ref.	Data Element	Name	Attributes
M	XH01	100 Currency Code Code (Standard ISO) for country in whose currency the charges are specified	M 1 ID 3/3
	XH02	645 Related Company Indication Code Code indicating parties to a transaction Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	XH03	150 Special Charge or Allowance Code Code identifying type of special charge or allowance Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 3/3
	XH04	610 Amount Monetary amount	O 1 N2 1/15
	XH05	503 Block 20 Code Code defining Block 20 characteristics Refer to 005010 Data Element Dictionary for acceptable code values.	O 1 ID 1/1
	XH06	504 Chemical Analysis Percentage Chemical analysis percentage	O 1 N2 2/9
	XH07	212 Unit Price Price per unit of product, service, commodity, etc.	O 1 R 1/17

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

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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M 1 N0 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