211 Motor Carrier Bill of Lading

Functional Group=BL

This Draft Standard for Trial Use contains the format and establishes the data contents of the Motor Carrier Bill of Lading Transaction Set (211) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used to allow shippers or other parties, responsible for contracting with a motor carrier, to provide a legal bill of lading for a shipment. It is not to be used to provide a motor carrier with data relative to a load tender, pick-up manifest, or appointment scheduling.

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	BOL	Beginning Segment for the Motor Carrier Bill of Lading	M	1			Must use
030	B2A	Set Purpose	M	1			Must use
040	MS3	Interline Information	O	12			Used
050	MS2	Equipment or Container Owner and Type	O	1		N1/050	Used
060	L11	Business Instructions and Reference Number	O	100			Used
070	G62	Date/Time	O	6			Used
080	AT5	Bill of Lading Handling Requirements	O	50			Used
090	K1	Remarks	O	10			Used
LOOP ID - 0100					**10**	**N1/100L**	
100	N1	Name	O	1		N1/100	Used
110	N2	Additional Name Information	O	1			Used
120	N3	Address Information	O	2			Used
130	N4	Geographic Location	O	1			Used
140	G61	Contact	O	3			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - 0200					**9999**	**N2/010L**	
010	AT1	Bill of Lading Line Item Number	M	1		N2/010	Must use
020	L11	Business Instructions and Reference Number	O	100			Used
030	AT3	Bill of Lading Rates and Charges	O	1		N2/030	Used
040	AT4	Bill of Lading Description	O	99		N2/040	Used
LOOP ID - 0210					**1**	**N2/050L**	
050	AT2	Bill of Lading Line Item Detail	O	1		N2/050	Used
060	MAN	Marks and Numbers	O	999999		N2/060	Used
070	SPO	Shipment Purchase Order Detail	O	999999		N2/070	Used

LOOP ID - 0220						999999	N2/080L	
080	LX	Assigned Number	O	1			N2/080	Used
090	MAN	Marks and Numbers	O	999999				Used
100	SPO	Shipment Purchase Order Detail	O	999999				Used

LOOP ID - 0230						2	N2/110L	
110	G61	Contact	O	1			N2/110	Used
120	L11	Business Instructions and Reference Number	O	5				Used
130	LH6	Hazardous Certification	O	6				Used

LOOP ID - 0231						25		
140	LH1	Hazardous Identification Information	M	1				Must use
150	LH2	Hazardous Classification Information	O	4				Used
160	LH3	Hazardous Material Shipping Name	O	10				Used
170	LFH	Freeform Hazardous Material Information	O	20				Used
180	LEP	EPA Required Data	O	3				Used
190	LH4	Canadian Dangerous Requirements	O	1				Used
200	LHT	Transborder Hazardous Requirements	O	3				Used
210	L11	Business Instructions and Reference Number	O	5				Used
220	SE	Transaction Set Trailer	M	1				Must use

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

1/050   The MS2 segment is used to provide the carrier with the trailer number of the trailer that has the shipment on it.

1/100L Loop 0100 is used to specify the parties to the Bill of Lading, including but not limited to, the ship-from, ship-to, or bill-to parties.

1/100   Loop 0100 is used to specify the parties to the Bill of Lading, including but not limited to, the ship-from, ship-to, or bill-to parties.

2/010L The AT1 segment provides the line number for all of the related items included. It may include reference numbers, rates and charges, descriptions, and or line item details. Any data included within a single loop is related to the other data included in that loop. Any reference numbers included in a loop with line item details are related to that line item only. Any reference numbers included in its own line item are related to the entire shipment and can not be broken out by line item detail.

2/010   The AT1 segment provides the line number for all of the related items included. It may include reference numbers, rates and charges, descriptions, and or line item details. Any data included within a single loop is related to the other data included in that loop. Any reference numbers included in a loop with line item details are related to that line item only. Any reference numbers included in its own line item are related to the entire shipment and can not be broken out by line item detail.

2/030   Care should be taken when using the AT3 segment to provide the carrier with a pre-rated Bill of Lading. Rates and charges included on the Bill of Lading are subject to audit. Accessorial charges usually can not be determined before the shipment has been delivered, therefore use of this segment may not negate the requirement for transaction set 210, Freight Invoice and Details.
The AT3 segment provides a means of transmitting freight charges and the basis for those charges. The amount of the charge appears in AT301. If the charge is based on a percent discount, the percent discount

is transmitted in AT307 with the charge, after the discount has been applied, in AT301. If the charge is not based on a rating structure (per mile, per hundred weight, as weight etc.) the type of charge is identified in AT306. If the charge is based on a rate, the rate is transmitted in AT303 with the qualifier (per mile, per hundred weight) codified in AT302. If the quantity of the unit being rated is required AT305 is used in conjunction with AT304. For example, for a charge of $20.00 that is based on a rate of $1.00 per mile the segment would be as follows: AT3*2000*PM*1*MI*20 N/L.

2/040   Segment AT4 provides a means for the shipper to provide a text description of the line item. The National Motor Freight Classification and the freight class shall be included in the AT2 segment if applicable.

2/050L   The AT2 segment is used to provide the carrier with the appropriate data to rate the shipment. It is included per line item when the line item includes an item of freight.

2/050   The AT2 segment is used to provide the carrier with the appropriate data to rate the shipment. It is included per line item when the line item includes an item of freight.

2/060   The MAN segment provides the marks and numbers associated with the line item identified in the AT2 segment.

2/070   The SPO segment provides the purchase order numbers and details associated with the line item details included in the AT2 segment.

2/080L   Loop 0220 shall only be used when the marks and numbers or the purchase order detail can not be associated with the specific Bill of Lading line item details included in the AT2 segments transmitted with this Bill of Lading.

2/080   Loop 0220 shall only be used when the marks and numbers or the purchase order detail can not be associated with the specific Bill of Lading line item details included in the AT2 segments transmitted with this Bill of Lading.

2/110L   The G61 segment shall only be used to provide the name and phone number of the contact for any hazardous materials included on this Bill of Lading.

2/110   The G61 segment shall only be used to provide the name and phone number of the contact for any hazardous materials included on this Bill of Lading.

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier** **Description:** Code to identify the type of information in the Authorization Information **All valid standard codes are used.**	M	ID	2/2	Must use
ISA02	I02	**Authorization Information** **Description:** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use
ISA03	I03	**Security Information Qualifier** **Description:** Code to identify the type of information in the Security Information **All valid standard codes are used.**	M	ID	2/2	Must use
ISA04	I04	**Security Information** **Description:** This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	Must use
ISA05	I05	**Interchange ID Qualifier** **Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified **All valid standard codes are used.**	M	ID	2/2	Must use
ISA06	I06	**Interchange Sender ID** **Description:** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M	AN	15/15	Must use
ISA07	I05	**Interchange ID Qualifier** **Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified **All valid standard codes are used.**	M	ID	2/2	Must use
ISA08	I07	**Interchange Receiver ID** **Description:** Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	M	AN	15/15	Must use
ISA09	I08	**Interchange Date**	M	DT	6/6	Must use

		Description: Date of the interchange				
ISA10	I09	**Interchange Time**	M	TM	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	**Interchange Control Standards Identifier**	M	ID	1/1	Must use
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer **All valid standard codes are used.**				
ISA12	I11	**Interchange Control Version Number**	M	ID	5/5	Must use
		Description: Code specifying the version number of the interchange control segments **All valid standard codes are used.**				
ISA13	I12	**Interchange Control Number**	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				
ISA14	I13	**Acknowledgment Requested**	M	ID	1/1	Must use
		Description: Code sent by the sender to request an interchange acknowledgment (TA1) **All valid standard codes are used.**				
ISA15	I14	**Usage Indicator**	M	ID	1/1	Must use
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information **All valid standard codes are used.**				
ISA16	I15	**Component Element Separator**	M		1/1	Must use
		Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator				

GS   Functional Group Header

Pos:	**Max: 1**
Not Defined - Mandatory	
Loop: N/A	**Elements: 8**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code** **Description:** Code identifying a group of application related transaction sets **All valid standard codes are used.**	M	ID	2/2	Must use
GS02	142	**Application Sender's Code** **Description:** Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	**Application Receiver's Code** **Description:** Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	**Date** **Description:** Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	**Time** **Description:** 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)	M	TM	4/8	Must use
GS06	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	**Responsible Agency Code** **Description:** Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 **All valid standard codes are used.**	M	ID	1/2	Must use
GS08	480	**Version / Release / Industry Identifier Code** **Description:** Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed **All valid standard codes are used.**	M	AN	1/12	Must use

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST   Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To indicate the start of a transaction set and to assign a control number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code** **Description:** Code uniquely identifying a Transaction Set **All valid standard codes are used.**	M	ID	3/3	Must use
ST02	329	**Transaction Set Control Number** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BOL Beginning Segment for the Motor Carrier Bill of Lading

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 11

User Option (Usage): Must use

To transmit identifying numbers, dates, and other basic data related to the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BOL01	140	**Standard Carrier Alpha Code** **Description:** Standard Carrier Alpha Code	M	ID	2/4	Must use
BOL02	146	**Shipment Method of Payment** **Description:** Code identifying payment terms for transportation charges **All valid standard codes are used.**	M	ID	2/2	Must use
BOL03	145	**Shipment Identification Number** **Description:** 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)	M	AN	1/30	Must use
BOL04	373	**Date** **Description:** Date expressed as CCYYMMDD	M	DT	8/8	Must use
BOL05	337	**Time** **Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	O	TM	4/8	Used
BOL06	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O	AN	1/30	Used
BOL07	160	**Status Report Request Code** **Description:** Code used by the shipper to specify that an automatic status report is requested when the shipment is delivered **All valid standard codes are used.**	O	ID	1/1	Used
BOL08	226	**Section Seven Code** **Description:** Code indicating applicability of section seven option (if not transmitted assume not in effect) **All valid standard codes are used.**	O	ID	1/1	Used
BOL09	501	**Customs Documentation Handling Code** **Description:** Code defining method of handling for documentation **All valid standard codes are used.**	O	ID	2/2	Used

For internal use only

BOL10	146	**Shipment Method of Payment** **Description:** Code identifying payment terms for transportation charges **All valid standard codes are used.**	O	ID	2/2	Used
BOL11	100	**Currency Code** **Description:** Code (Standard ISO) for country in whose currency the charges are specified	O	ID	3/3	Used

Semantics:

1. BOL01 is the Standard Carrier Alpha Code (SCAC) of the carrier that is to provide transportation services.
2. BOL02 is the method of payment for the freight charges.
3. BOL03 is the identification number assigned by the shipper, usually the Bill of Lading number.
4. BOL04 is the date the carrier picked up the freight.
5. BOL05 is the actual time the carrier picked up the freight.
6. BOL06 is the number assigned by the carrier to the shipment, usually the PRO number.
7. BOL10 is the method of payment for the COD fee.
8. BOL11 is the currency that all monetary units are specified in for this transaction set.

B2A   Set Purpose

Pos: 030	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To allow for positive identification of transaction set purpose

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B2A01	353	**Transaction Set Purpose Code** **Description:** Code identifying purpose of transaction set **All valid standard codes are used.**	M	ID	2/2	Must use
B2A02	346	**Application Type** **Description:** Code identifying an application **All valid standard codes are used.**	O	ID	2/2	Used

MS3   Interline Information

Pos: 040	Max: 12
Heading - Optional	
Loop: N/A	Elements: 5

User Option (Usage): Used

To identify the interline carrier and relevant data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MS301	140	**Standard Carrier Alpha Code** **Description:** Standard Carrier Alpha Code	M	ID	2/4	Must use
MS302	133	**Routing Sequence Code** **Description:** Code describing the relationship of a carrier to a specific shipment movement **All valid standard codes are used.**	M	ID	1/2	Must use
MS303	19	**City Name** **Description:** Free-form text for city name	X	AN	2/30	Used
MS304	91	**Transportation Method/Type Code** **Description:** Code specifying the method or type of transportation for the shipment **All valid standard codes are used.**	O	ID	1/2	Used
MS305	156	**State or Province Code** **Description:** Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used

Syntax:

1. C0503 - If MS305 is present, then all of MS303 are required

Semantics:

1. MS301 is the Standard Carrier Alpha Code (SCAC) of the interline carrier.
2. MS303 is the city where the interline was performed.

MS2 Equipment or Container Owner and Type

Pos: 050	Max: 1
Heading - Optional	
Loop: N/A	Elements: 4

User Option (Usage): Used

To specify the owner, the identification number assigned by that owner, and the type of equipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MS201	140	**Standard Carrier Alpha Code** **Description:** Standard Carrier Alpha Code	X	ID	2/4	Used
MS202	207	**Equipment Number** **Description:** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	X	AN	1/10	Used
MS203	40	**Equipment Description Code** **Description:** Code identifying type of equipment used for shipment **All valid standard codes are used.**	O	ID	2/2	Used
MS204	761	**Equipment Number Check Digit** **Description:** Number which designates the check digit applied to a piece of equipment	O	N0	1/1	Used

Syntax:

1. P0102 - If either MS201,MS202 is present, then all are required
2. C0402 - If MS204 is present, then all of MS202 are required

Comments:

1. MS203 identifies the type for the equipment specified in MS202.

L11 Business Instructions and Reference Number

Pos: 060	Max: 100
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To specify instructions in this business relationship or a reference number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1101	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
L1102	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification **All valid standard codes are used.**	X	ID	2/3	Used
L1103	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

Syntax:

1. R0103 - At least one of L1101,L1103 is required
2. P0102 - If either L1101,L1102 is present, then all are required

G62   Date/Time

Pos: 070   Max: 6
Heading - Optional
Loop: N/A   Elements: 5

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
G6201	432	**Date Qualifier** **Description:** Code specifying type of date **All valid standard codes are used.**	X	ID	2/2	Used
G6202	373	**Date** **Description:** Date expressed as CCYYMMDD	X	DT	8/8	Used
G6203	176	**Time Qualifier** **Description:** Code specifying the reported time **All valid standard codes are used.**	X	ID	1/2	Used
G6204	337	**Time** **Description:** 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	TM	4/8	Used
G6205	623	**Time Code** **Description:** 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 **All valid standard codes are used.**	O	ID	2/2	Used

Syntax:

1. R0103 - At least one of G6201,G6203 is required
2. P0102 - If either G6201,G6202 is present, then all are required
3. P0304 - If either G6203,G6204 is present, then all are required

AT5 Bill of Lading Handling Requirements

Pos: 080   Max: 50
Heading - Optional
Loop: N/A   Elements: 3

User Option (Usage): Used

To identify Bill of Lading handling and service requirements

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT501	152	**Special Handling Code** **Description:** Code specifying special transportation handling instructions **All valid standard codes are used.**	X	ID	2/3	Used
AT502	560	**Special Services Code** **Description:** Code identifying the special service **All valid standard codes are used.**	X	ID	2/10	Used
AT503	153	**Special Handling Description** **Description:** Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate	X	AN	2/30	Used

Syntax:
1. E0103 - Only one of AT501,AT503 may be presented
2. E0203 - Only one of AT502,AT503 may be presented

K1   Remarks

Pos: 090	Max: 10
Heading - Optional	
Loop: N/A	**Elements: 2**

User Option (Usage): Used

To transmit information in a free-form format for comment or special instruction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
K101	61	**Free-Form Message**	M	AN	1/30	Must use
		Description: Free-form information				
K102	61	**Free-Form Message**	O	AN	1/30	Used
		Description: Free-form information				

Loop 0100

Pos: 100	Repeat: 10
Optional	
Loop: 0100	**Elements: N/A**

To identify a party by type of organization, name, and code

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
100	N1	Name	O	1		Used
110	N2	Additional Name Information	O	1		Used
120	N3	Address Information	O	2		Used
130	N4	Geographic Location	O	1		Used
140	G61	Contact	O	3		Used

N1 Name

User Option (Usage): Used

To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code** **Description:** Code identifying an organizational entity, a physical location, property or an individual **All valid standard codes are used.**	M	ID	2/3	Must use
N102	93	**Name** **Description:** Free-form name	X	AN	1/60	Used
N103	66	**Identification Code Qualifier** **Description:** Code designating the system/method of code structure used for Identification Code (67) **All valid standard codes are used.**	X	ID	1/2	Used
N104	67	**Identification Code** **Description:** Code identifying a party or other code	X	AN	2/80	Used
N105	706	**Entity Relationship Code** **Description:** Code describing entity relationship **All valid standard codes are used.**	O	ID	2/2	Used
N106	98	**Entity Identifier Code** **Description:** Code identifying an organizational entity, a physical location, property or an individual **All valid standard codes are used.**	O	ID	2/3	Used

Syntax:

1. R0203 - At least one of N102,N103 is required
2. P0304 - If either N103,N104 is present, then all are required

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.

N2   Additional Name Information

<table>
<tr><td>Pos: 110</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: 0100</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Used

To specify additional names or those longer than 35 characters in length

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	93	**Name** **Description:** Free-form name	M	AN	1/60	Must use
N202	93	**Name** **Description:** Free-form name	O	AN	1/60	Used

N3   Address Information

| Pos: 120   Max: 2 |
| Heading - Optional |
| Loop: 0100   Elements: 2 |

User Option (Usage): Used

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information** **Description:** Address information	M	AN	1/55	Must use
N302	166	**Address Information** **Description:** Address information	O	AN	1/55	Used

N4   Geographic Location

Pos: 130   Max: 1
Heading - Optional
Loop: 0100   Elements: 6

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name** **Description:** Free-form text for city name	O	AN	2/30	Used
N402	156	**State or Province Code** **Description:** Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	**Postal Code** **Description:** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	**Country Code** **Description:** Code identifying the country	O	ID	2/3	Used
N405	309	**Location Qualifier** **Description:** Code identifying type of location **All valid standard codes are used.**	X	ID	1/2	Used
N406	310	**Location Identifier** **Description:** Code which identifies a specific location	O	AN	1/30	Used

Syntax:

1. C0605 - If N406 is present, then all of N405 are required

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.

G61   Contact

User Option (Usage): Used

To identify a person or office to whom communications should be directed

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
G6101	366	**Contact Function Code** **Description:** Code identifying the major duty or responsibility of the person or group named **All valid standard codes are used.**	M	ID	2/2	Must use
G6102	93	**Name** **Description:** Free-form name	M	AN	1/60	Must use
G6103	365	**Communication Number Qualifier** **Description:** Code identifying the type of communication number **All valid standard codes are used.**	X	ID	2/2	Used
G6104	364	**Communication Number** **Description:** Complete communications number including country or area code when applicable	X	AN	1/80	Used
G6105	443	**Contact Inquiry Reference** **Description:** Additional reference number or description to clarify a contact number	O	AN	1/20	Used

Syntax:

1. P0304 - If either G6103,G6104 is present, then all are required

Comments:

1. G6103 qualifies G6104.

Loop 0200

Pos: 010	**Repeat: 9999**
Mandatory	
Loop: 0200	**Elements: N/A**

To reference a Bill of Lading line number

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	AT1	Bill of Lading Line Item Number	M	1		Must use
020	L11	Business Instructions and Reference Number	O	100		Used
030	AT3	Bill of Lading Rates and Charges	O	1		Used
040	AT4	Bill of Lading Description	O	99		Used
050		Loop 0210	O		1	Used
080		Loop 0220	O		999999	Used
110		Loop 0230	O		2	Used

AT1 Bill of Lading Line Item Number

Pos: 010 Max: 1
Detail - Mandatory
Loop: 0200 Elements: 1

User Option (Usage): Must use

To reference a Bill of Lading line number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT101	213	**Lading Line Item Number** **Description:** Sequential line number for a lading item	M	N0	1/3	Must use

L11   Business Instructions and Reference Number

<table>
<tr><td>Pos: 020   Max: 100
Detail - Optional
Loop: 0200   Elements: 3</td></tr>
</table>

User Option (Usage): Used

To specify instructions in this business relationship or a reference number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1101	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
L1102	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification **All valid standard codes are used.**	X	ID	2/3	Used
L1103	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

Syntax:

1. R0103 - At least one of L1101,L1103 is required
2. P0102 - If either L1101,L1102 is present, then all are required

AT3 Bill of Lading Rates and Charges

Pos: 030	Max: 1
Detail - Optional	
Loop: 0200	**Elements: 7**

User Option (Usage): Used

To specify Bill of Lading rates and charges

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT301	58	**Charge** **Description:** 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	M	N2	1/12	Must use
AT302	1600	**Freight Rate Qualifier** **Description:** Code qualifying the Bill of Lading freight rate **All valid standard codes are used.**	X	ID	2/2	Used
AT303	60	**Freight Rate** **Description:** Rate that applies to the specific commodity	X	R	1/9	Used
AT304	1601	**Rated-as Qualifier** **Description:** Code identifying the type of quantity on which the rate is based **All valid standard codes are used.**	X	ID	2/2	Used
AT305	380	**Quantity** **Description:** Numeric value of quantity	X	R	1/15	Used
AT306	1602	**Bill of Lading Charge Code** **Description:** Code identifying the type of Bill of Lading charge **All valid standard codes are used.**	X	ID	3/3	Used
AT307	954	**Percent** **Description:** Percentage expressed as a decimal	X	R	1/10	Used

Syntax:
1. P0203 - If either AT302,AT303 is present, then all are required
2. E020607 - Only one of AT302,AT306,AT307 may be presented
3. R020607 - At least one of AT302,AT306,AT307 is required
4. P0405 - If either AT304,AT305 is present, then all are required
5. C0402 - If AT304 is present, then all of AT302 are required

Semantics:
1. AT301 is the charge per Bill of Lading line item.
2. AT307 is the percent discount that was used to determine the charge in AT301.

Comments:
1. AT305 is the quantity of units (miles, gallons, deficit weight, etc.) as defined by the qualifier in AT304.

AT4 Bill of Lading Description

Pos: 040 Max: 99
Detail - Optional
Loop: 0200 Elements: 1

User Option (Usage): Used

To specify the lading description

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT401	79	**Lading Description**	M	AN	1/50	Must use
		Description: Description of an item as required for rating and billing purposes				

Loop 0210

Pos: 050	Repeat: 1
Optional	
Loop: 0210	**Elements: N/A**

To specify Bill of Lading quantity, weight, and commodity classification

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
050	AT2	Bill of Lading Line Item Detail	O	1		Used
060	MAN	Marks and Numbers	O	999999		Used
070	SPO	Shipment Purchase Order Detail	O	999999		Used

For internal use only

AT2   Bill of Lading Line Item Detail

Pos: 050	Max: 1
Detail - Optional	
Loop: 0210	Elements: 10

User Option (Usage): Used

To specify Bill of Lading quantity, weight, and commodity classification

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT201	80	**Lading Quantity** **Description:** Number of units (pieces) of the lading commodity	M	N0	1/7	Must use
AT202	211	**Packaging Form Code** **Description:** Code for packaging form of the lading quantity **All valid standard codes are used.**	M	ID	3/3	Must use
AT203	187	**Weight Qualifier** **Description:** Code defining the type of weight **All valid standard codes are used.**	M	ID	1/2	Must use
AT204	188	**Weight Unit Code** **Description:** Code specifying the weight unit **All valid standard codes are used.**	M	ID	1/1	Must use
AT205	81	**Weight** **Description:** Numeric value of weight	M	R	1/10	Must use
AT206	80	**Lading Quantity** **Description:** Number of units (pieces) of the lading commodity	X	N0	1/7	Used
AT207	211	**Packaging Form Code** **Description:** Code for packaging form of the lading quantity **All valid standard codes are used.**	X	ID	3/3	Used
AT208	1073	**Yes/No Condition or Response Code** **Description:** Code indicating a Yes or No condition or response **All valid standard codes are used.**	O	ID	1/1	Used
AT209	22	**Commodity Code** **Description:** Code describing a commodity or group of commodities	O	AN	1/30	Used
AT210	59	**Freight Class Code** **Description:** Code indicating generalized classification that applies to one or more items in the shipment, i.e., class 70, 77.5, etc.	O	AN	2/5	Used

Syntax:

1. P0607 - If either AT206,AT207 is present, then all are required

Semantics:

1. AT201 is the number of carrier handling units for the line item.
2. AT202 is the packaging form of the lading quantity in AT201.
3. AT203 and AT204 qualify AT205.

4. AT205 is the weight of the lading quantity identified in AT201.
5. AT206 is used only if AT202 contains the codes PLT, SKD, or SLP.
6. AT206 is the total number of pieces contained on the pallets, skids or slip sheets identified in AT201.
7. AT207 is the packaging form of the units on the pallet, skid, or slip sheet identified in AT202.
8. AT208 indicates if the carrier is required to verify the number of cartons on the pallet, slip sheet, or skid. A "Y" indicates that the carrier is required to verify the number of cartons. An "N" indicates that the carrier is not required to verify the number of cartons. If AT208 is not present in the segment a code of "N" is assumed.
9. AT209 is the National Motor Freight Classification Number.

MAN Marks and Numbers

<div style="border:1px solid">

Pos: 060   Max: 999999
Detail - Optional
Loop: 0210   Elements: 6

</div>

User Option (Usage): Used

To indicate identifying marks and numbers for shipping containers

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	**Marks and Numbers Qualifier** **Description:** Code specifying the application or source of Marks and Numbers (87) **All valid standard codes are used.**	M	ID	1/2	Must use
MAN02	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment	M	AN	1/48	Must use
MAN03	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used
MAN04	88	**Marks and Numbers Qualifier** **Description:** Code specifying the application or source of Marks and Numbers (87) **All valid standard codes are used.**	X	ID	1/2	Used
MAN05	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment	X	AN	1/48	Used
MAN06	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used

Syntax:

1. P0405 - If either MAN04,MAN05 is present, then all are required
2. C0605 - If MAN06 is present, then all of MAN05 are required

Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Comments:

1. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
2. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
3. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

SPO Shipment Purchase Order Detail

Pos: 070   Max: 999999
Detail - Optional
Loop: 0210   Elements: 8

User Option (Usage): Used

To specify the purchase order details for a shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SPO01	324	**Purchase Order Number** **Description:** Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Must use
SPO02	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O	AN	1/30	Used
SPO03	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	X	ID	2/2	Used
SPO04	380	**Quantity** **Description:** Numeric value of quantity	X	R	1/15	Used
SPO05	188	**Weight Unit Code** **Description:** Code specifying the weight unit **All valid standard codes are used.**	X	ID	1/1	Used
SPO06	81	**Weight** **Description:** Numeric value of weight	X	R	1/10	Used
SPO07	647	**Application Error Condition Code** **Description:** Code indicating application error condition **All valid standard codes are used.**	O	ID	1/3	Used
SPO08	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O	AN	1/30	Used

Syntax:
1. P0304 - If either SPO03,SPO04 is present, then all are required
2. P0506 - If either SPO05,SPO06 is present, then all are required

Semantics:
1. SPO02 is the department number.
2. SPO04 is the total quantity for the purchase order.
3. SPO06 is the total weight for the purchase order.
4. SPO07 indicates the data error condition relative to the shipment management information.
5. SPO08 is used to specify sorting and/or segregating reference numbers for each receiving location (processing area).

Loop 0220

Pos: 080	Repeat: 999999
Optional	
Loop: 0220	Elements: N/A

To reference a line number in a transaction set

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
080	LX	Assigned Number	O	1		Used
090	MAN	Marks and Numbers	O	999999		Used
100	SPO	Shipment Purchase Order Detail	O	999999		Used

LX   Assigned Number

Pos: 080   Max: 1
Detail - Optional
Loop: 0220   Elements: 1

User Option (Usage): Used

To reference a line number in a transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LX01	554	**Assigned Number**	M	N0	1/6	Must use
		Description: Number assigned for differentiation within a transaction set				

MAN Marks and Numbers

User Option (Usage): Used

To indicate identifying marks and numbers for shipping containers

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	**Marks and Numbers Qualifier** **Description:** Code specifying the application or source of Marks and Numbers (87) **All valid standard codes are used.**	M	ID	1/2	Must use
MAN02	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment	M	AN	1/48	Must use
MAN03	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used
MAN04	88	**Marks and Numbers Qualifier** **Description:** Code specifying the application or source of Marks and Numbers (87) **All valid standard codes are used.**	X	ID	1/2	Used
MAN05	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment	X	AN	1/48	Used
MAN06	87	**Marks and Numbers** **Description:** Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used

Syntax:

1. P0405 - If either MAN04,MAN05 is present, then all are required
2. C0605 - If MAN06 is present, then all of MAN05 are required

Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Comments:

1. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
2. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
3. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

SPO Shipment Purchase Order Detail

Pos: 100	**Max: 999999**
Detail - Optional	
Loop: 0220	**Elements: 8**

User Option (Usage): Used

To specify the purchase order details for a shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SPO01	324	**Purchase Order Number** **Description:** Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Must use
SPO02	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O	AN	1/30	Used
SPO03	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	X	ID	2/2	Used
SPO04	380	**Quantity** **Description:** Numeric value of quantity	X	R	1/15	Used
SPO05	188	**Weight Unit Code** **Description:** Code specifying the weight unit **All valid standard codes are used.**	X	ID	1/1	Used
SPO06	81	**Weight** **Description:** Numeric value of weight	X	R	1/10	Used
SPO07	647	**Application Error Condition Code** **Description:** Code indicating application error condition **All valid standard codes are used.**	O	ID	1/3	Used
SPO08	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O	AN	1/30	Used

Syntax:
1. P0304 - If either SPO03,SPO04 is present, then all are required
2. P0506 - If either SPO05,SPO06 is present, then all are required

Semantics:
1. SPO02 is the department number.
2. SPO04 is the total quantity for the purchase order.
3. SPO06 is the total weight for the purchase order.
4. SPO07 indicates the data error condition relative to the shipment management information.
5. SPO08 is used to specify sorting and/or segregating reference numbers for each receiving location (processing area).

Loop 0230

Pos: 110	Repeat: 2
Optional	
Loop: 0230	**Elements: N/A**

To identify a person or office to whom communications should be directed

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
110	G61	Contact	O	1		Used
120	L11	Business Instructions and Reference Number	O	5		Used
130	LH6	Hazardous Certification	O	6		Used
140		Loop 0231	M		25	Must use

G61   Contact

<div style="border:1px solid">
Pos: 110   Max: 1
Detail - Optional
Loop: 0230   Elements: 5
</div>

User Option (Usage): Used

To identify a person or office to whom communications should be directed

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
G6101	366	**Contact Function Code** **Description:** Code identifying the major duty or responsibility of the person or group named **All valid standard codes are used.**	M	ID	2/2	Must use
G6102	93	**Name** **Description:** Free-form name	M	AN	1/60	Must use
G6103	365	**Communication Number Qualifier** **Description:** Code identifying the type of communication number **All valid standard codes are used.**	X	ID	2/2	Used
G6104	364	**Communication Number** **Description:** Complete communications number including country or area code when applicable	X	AN	1/80	Used
G6105	443	**Contact Inquiry Reference** **Description:** Additional reference number or description to clarify a contact number	O	AN	1/20	Used

Syntax:

1. P0304 - If either G6103,G6104 is present, then all are required

Comments:

1. G6103 qualifies G6104.

L11   Business Instructions and Reference Number

Pos: 120	Max: 5
Detail - Optional	
Loop: 0230	**Elements: 3**

User Option (Usage): Used

To specify instructions in this business relationship or a reference number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1101	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
L1102	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification **All valid standard codes are used.**	X	ID	2/3	Used
L1103	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

Syntax:

1. R0103 - At least one of L1101,L1103 is required
2. P0102 - If either L1101,L1102 is present, then all are required

LH6   Hazardous Certification

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH601	93	**Name** **Description:** Free-form name	O	AN	1/60	Used
LH602	272	**Hazardous Certification Code** **Description:** Code indicating the form of the hazardous certification **All valid standard codes are used.**	X	ID	1/1	Used
LH603	273	**Hazardous Certification Declaration** **Description:** Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations	X	AN	1/25	Used
LH604	273	**Hazardous Certification Declaration** **Description:** Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations	O	AN	1/25	Used

Syntax:

1. P0203 - If either LH602,LH603 is present, then all are required

Loop 0231

Pos: 140	**Repeat: 25**
Mandatory	
Loop: 0231	**Elements: N/A**

To specify the hazardous commodity identification reference number and quantity

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
140	LH1	Hazardous Identification Information	M	1		Must use
150	LH2	Hazardous Classification Information	O	4		Used
160	LH3	Hazardous Material Shipping Name	O	10		Used
170	LFH	Freeform Hazardous Material Information	O	20		Used
180	LEP	EPA Required Data	O	3		Used
190	LH4	Canadian Dangerous Requirements	O	1		Used
200	LHT	Transborder Hazardous Requirements	O	3		Used
210	L11	Business Instructions and Reference Number	O	5		Used

LH1 Hazardous Identification Information

Pos: 140	Max: 1
Detail - Mandatory	
Loop: 0231	Elements: 11

User Option (Usage): Must use

To specify the hazardous commodity identification reference number and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH101	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	M	ID	2/2	Must use
LH102	80	**Lading Quantity** **Description:** Number of units (pieces) of the lading commodity	M	N0	1/7	Must use
LH103	277	**UN/NA Identification Code** **Description:** 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	ID	6/6	Used
LH104	200	**Hazardous Materials Page** **Description:** The United Nations page number as required for the international transport of hazardous materials	O	AN	1/6	Used
LH105	22	**Commodity Code** **Description:** Code describing a commodity or group of commodities	O	AN	1/30	Used
LH106	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	O	ID	2/2	Used
LH107	380	**Quantity** **Description:** Numeric value of quantity	O	R	1/15	Used
LH108	595	**Compartment ID Code** **Description:** Code identifying the compartment in a compartmentalized tank car **All valid standard codes are used.**	O	ID	1/1	Used
LH109	665	**Residue Indicator Code** **Description:** Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded **All valid standard codes are used.**	O	ID	1/1	Used
LH110	254	**Packing Group Code** **Description:** Code indicating degree of danger in terms of Roman number I, II or III	O	ID	1/3	Used
LH111	1375	**Interim Hazardous Material Regulatory Number** **Description:** Identifies the current regulatory	O	AN	1/5	Used

version number used for hazardous materials
shipments

Comments:

1. LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.

2. LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.

3. In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

LH2 Hazardous Classification Information

Pos: 150	**Max: 4**
Detail - Optional	
Loop: 0231	**Elements: 11**

User Option (Usage): Used

To specify the hazardous notation and endorsement information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH201	215	**Hazardous Classification** **Description:** The hazardous classification corresponding to the shipping name of the hazardous commodity	O	ID	1/30	Used
LH202	983	**Hazardous Class Qualifier** **Description:** Code qualifying hazardous class **All valid standard codes are used.**	O	ID	1/1	Used
LH203	218	**Hazardous Placard Notation** **Description:** The placard notation corresponding to the hazard class of the hazardous commodity	O	ID	14/40	Used
LH204	222	**Hazardous Endorsement** **Description:** The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O	ID	4/25	Used
LH205	759	**Reportable Quantity Code** **Description:** Code to identify presence of hazardous substance **All valid standard codes are used.**	O	ID	2/2	Used
LH206	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	X	ID	2/2	Used
LH207	408	**Temperature** **Description:** Temperature	X	R	1/4	Used
LH208	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	X	ID	2/2	Used
LH209	408	**Temperature** **Description:** Temperature	X	R	1/4	Used
LH210	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	X	ID	2/2	Used
LH211	408	**Temperature** **Description:** Temperature	X	R	1/4	Used

Syntax:

1. P0607 - If either LH206,LH207 is present, then all are required

2. P0809 - If either LH208,LH209 is present, then all are required
3. P1011 - If either LH210,LH211 is present, then all are required

Semantics:

1. LH206 and LH207 indicate the flashpoint temperature.
2. LH208 and LH209 indicate the control temperature.
3. LH210 and LH211 indicate the emergency temperature.

LH3 Hazardous Material Shipping Name

Pos: 160	Max: 10
Detail - Optional	
Loop: 0231	**Elements: 4**

User Option (Usage): Used

To specify the hazardous material shipping name and additional descriptive requirements

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH301	224	**Hazardous Material Shipping Name** **Description:** The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	X	AN	1/25	Used
LH302	984	**Hazardous Material Shipping Name Qualifier** **Description:** Qualifier indicating the source (regulatory) of the proper shipping name **All valid standard codes are used.**	X	ID	1/1	Used
LH303	985	**N.O.S. Indicator Code** **Description:** Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified **All valid standard codes are used.**	O	ID	3/3	Used
LH304	1073	**Yes/No Condition or Response Code** **Description:** Code indicating a Yes or No condition or response **All valid standard codes are used.**	O	ID	1/1	Used

Syntax:

1. P0102 - If either LH301,LH302 is present, then all are required

Semantics:

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.

LFH Freeform Hazardous Material Information

Pos: 170   Max: 20
Detail - Optional
Loop: 0231   Elements: 7

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LFH01	808	**Hazardous Material Shipment Information Qualifier** **Description:** Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements **All valid standard codes are used.**	M	ID	3/3	Must use
LFH02	809	**Hazardous Material Shipment Information** **Description:** Specific information required by law for hazardous material shipments	M	AN	1/25	Must use
LFH03	809	**Hazardous Material Shipment Information** **Description:** Specific information required by law for hazardous material shipments	O	AN	1/25	Used
LFH04	1023	**Hazard Zone Code** **Description:** Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone **All valid standard codes are used.**	O	ID	1/1	Used
LFH05	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	X	ID	2/2	Used
LFH06	380	**Quantity** **Description:** Numeric value of quantity	X	R	1/15	Used
LFH07	380	**Quantity** **Description:** Numeric value of quantity	O	R	1/15	Used

Syntax:

1. P0506 - If either LFH05,LFH06 is present, then all are required

Semantics:

1. LFH06 indicates activity of the radioactive material.
2. LFH07 indicates transport index of the radioactive material.

LEP EPA Required Data

Pos: 180   Max: 3
Detail - Optional
Loop: 0231   Elements: 4

User Option (Usage): Used

To specify the Environmental Protection Agency (EPA) information relating to shipments of hazardous material

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LEP01	806	**EPA Waste Stream Number Code** **Description:** Waste stream number applicable to the movement of hazardous waste as determined by government regulations	O	ID	4/6	Used
LEP02	807	**Waste Characteristics Code** **Description:** Waste characteristics as defined by regulatory requirements	O	ID	12/16	Used
LEP03	156	**State or Province Code** **Description:** Code (Standard State/Province) as defined by appropriate government agency	X	ID	2/2	Used
LEP04	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

Syntax:

1. P0304 - If either LEP03,LEP04 is present, then all are required

Semantics:

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.

LH4   Canadian Dangerous Requirements

Pos: 190	**Max: 1**
Detail - Optional	
Loop: 0231	**Elements: 12**

User Option (Usage): Used

To specify additional Transport Canada requirements covering transportation of dangerous goods in Canada

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LH401	238	**Emergency Response Plan Number** **Description:** The identity number of a specific hazardous emergency response plan that is assigned by the Director General of Canada	O	AN	1/12	Used
LH402	364	**Communication Number** **Description:** Complete communications number including country or area code when applicable	O	AN	1/80	Used
LH403	254	**Packing Group Code** **Description:** Code indicating degree of danger in terms of Roman number I, II or III	O	ID	1/3	Used
LH404	230	**Subsidiary Classification** **Description:** Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O	ID	1/3	Used
LH405	230	**Subsidiary Classification** **Description:** Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O	ID	1/3	Used
LH406	230	**Subsidiary Classification** **Description:** Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O	ID	1/3	Used
LH407	271	**Subsidiary Risk Indicator** **Description:** Code identifying the type of subsidiary risk **All valid standard codes are used.**	O	ID	1/2	Used
LH408	267	**Net Explosive Quantity** **Description:** Net weight of the explosive quantity of the hazardous commodity	X	N0	1/6	Used
LH409	805	**Canadian Hazardous Notation** **Description:** Notation required by Canadian regulatory agencies	O	AN	1/25	Used
LH410	986	**Special Commodity Indicator Code** **Description:** Code indicating 'Special Commodity' notation on operational waybill as identified by the Transportation of Dangerous Goods Act and Regulation (TDG) **All valid standard codes are used.**	O	ID	1/1	Used
LH411	364	**Communication Number**	O	AN	1/80	Used

		Description: Complete communications number including country or area code when applicable				
LH412	355	**Unit or Basis for Measurement Code** **Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **All valid standard codes are used.**	X	ID	2/2	Used

Syntax:

1. P0812 - If either LH408,LH412 is present, then all are required

Semantics:

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.

LHT   Transborder Hazardous Requirements

Pos: 200   Max: 3
Detail - Optional
Loop: 0231   Elements: 3

User Option (Usage): Used

To specify the placard information required by the second government agency when shipment is to cross into another country

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LHT01	215	**Hazardous Classification** **Description:** The hazardous classification corresponding to the shipping name of the hazardous commodity	O	ID	1/30	Used
LHT02	218	**Hazardous Placard Notation** **Description:** The placard notation corresponding to the hazard class of the hazardous commodity	O	ID	14/40	Used
LHT03	222	**Hazardous Endorsement** **Description:** The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O	ID	4/25	Used

L11 Business Instructions and Reference Number

Pos: 210	Max: 5
Detail - Optional	
Loop: 0231	Elements: 3

User Option (Usage): Used

To specify instructions in this business relationship or a reference number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1101	127	**Reference Identification** **Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
L1102	128	**Reference Identification Qualifier** **Description:** Code qualifying the Reference Identification **All valid standard codes are used.**	X	ID	2/3	Used
L1103	352	**Description** **Description:** A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

Syntax:

1. R0103 - At least one of L1101,L1103 is required
2. P0102 - If either L1101,L1102 is present, then all are required

SE   Transaction Set Trailer

Pos: 220   Max: 1
Detail - Mandatory
Loop: N/A   Elements: 2

User Option (Usage): Must use

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments** **Description:** Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	**Transaction Set Control Number** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Comments:

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

GE   Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To indicate the end of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included** **Description:** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use
GE02	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

For internal use only

IEA   **Interchange Control Trailer**

Pos:	**Max: 1**
Not Defined - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups** **Description:** A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	M	N0	9/9	Must use

For internal use only