

CSX EDI 418 Rail Advance Interchange Consist

X12/V5030/418: 418 Rail Advance Interchange Consist

Version: 005030 RAIL

Questions about the CSX EDI 418 Implementation Guide should be directed to:

877-SHIPCSX option 2, prompt 1

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418

Rail Advance Interchange Consist

Functional Group=

Purpose: This X12 Transaction Set contains the format and establishes the data contents of the Rail Advance Interchange Consist Transaction Set (418) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to transmit advance information on equipment being interchanged to a connection rail carrier, from a consignor or to a consignee.

Heading			0					
Pos	<u>ld</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	Repeat	<u>Notes</u>	<u>Usage</u>	
0100	ST	Transaction Set Header	Μ	1			Must use	
0200	BAX	Beginning Segment for Advance Consist and	М	1		N1/0200	Must use	
		Transportation Automatic Equipment ID						
LOOP ID	- NM1		-	_	999	_	_	
0210	NM1	Individual or Organizational Name	0	1			Used	
0220	DMG	Demographic Information	0	1			Used	
0230	DMA	Additional Demographic Information	0	1			Used	
0240	REF	Reference Information	0	2			Used	
0250	N3	Party Location	Ō	2			Used	
0260	N4	Geographic Location	0	1			Used	
LOOP ID					<u>30</u>			
0300	 W1	Block Identification	- M	- 1	<u></u>	-	- Must use	
LOOP ID		Bieek laonanoalon	_	- -	800	_	-	
0400	W2	Equipment Identification	М	1			Must use	
0500	W3	Consignee Information	0	7		N1/0500	Used	
0600	IMA	Interchange Move Authority	0	3			Used	
0700	W4	Consignor Information	0	1			Used	
0800	W5	Carrier and Route	0	4			Used	
0900	W6	Special Handling Information	0	6			Used	
1000	PS	Protective Service Instructions	0	5			Used	
1100	REF	Reference Information	0	10			Used	
LOOP ID	- LS		-	_	<u>1</u>	-	-	
1200	LS	Loop Header	0	1	_		Used	
LOOP ID	- LH1		-	_	1000	-	-	
1300	LH1	Hazardous Identification Information	0	1			Used	
1400	LH2	Hazardous Classification Information	0	4		N1/1400	Used	
1500	LH3	Hazardous Material Shipping Name Information	0	10			Used	
1600	LFH	Free-form Hazardous Material Information	0	20			Used	
1700	LEP	EPA Required Data	0	3			Used	
1800	LH4	Canadian Dangerous Requirements	0	4			Used	
1900	LHT	Transborder Hazardous	0	3			Used	

2000	LHR	Requirements Hazardous Material Identifying Reference Numbers	0	5			Used
2050	PER	Administrative Communications Contact	0	5			Used
LOOP ID	<u>- N1</u>		_	-	<u>10</u>	-	
2060	N1	Party Identification	0	1			Used
2070	N3	Party Location	0	2			Used
2080	N4	Geographic Location	0	1			Used
2090	PER	Administrative Communications Contact	0	2			Used
2100	LE	Loop Trailer	М	1			Used
2200	PER	Administrative Communications Contact	0	5			Used
2300	LH2	Hazardous Classification Information	0	1		N1/2300	Used
2400	LHR	Hazardous Material Identifying Reference Numbers	0	1			Used
2500	SE	Transaction Set Trailer	М	1			Must use

Notes:

1/0200 BAX01 is the to location Standard Point Location Code (SPLC). If BAX02 = "T" (Train Consist), then BAX06 must not be blank.

1/0500 Required when routing extends to carriers beyond the receiving carrier or when the consist type (BAX02) is an "S" indicating an

intermediate switch carrier consist

1/1400 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.

1/2300 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.

ST Transaction Set Header

Pos: 0100 Max: 1 Heading - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	
ST01	143	Transaction Set Identifier Code	М	ID	3/3	Must use	
		Description: Code uniquely identifying a Transaction Set					
		<u>Code</u> <u>Name</u>					
		418 Rail Advance Interchange	Consist				
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use	
	Description: Identifying control number that must be unique within the transaction functional group assigned by the originator for a transaction set						

Semantics:

- 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).
- 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.

BAX Beginning Segment for Advance Consist and Transportation Automatic Equipment ID

Pos: 0200 Max: 1 Heading - Mandatory Loop: N/A Elements: 9

User Option (Usage): Must use

Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary: Element Name Ref ld Req Type Min/Max Usage BAX01 154 **Standard Point Location Code** М 6/9 Must use Description: 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 BAX02 Type of Consist Code ID 1/1579 М Must use Description: Code indicating the type of consist Code Name A Advance Automatic Equipment Identification (AEI) Consist В Bad Order D Detour Joint Track J L Information Only Advanced Consist Ρ Passing R Release from Bad Order S Switch т Train (Normal Advanced) Y Actual Interchange BAX03 374 **Date/Time Qualifier** Μ ID 3/3 Must use Description: Code specifying type of date or time, or both date and time Code Name 139 Estimated 140 Actual DT BAX04 373 Date Μ 8/8 Must use Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year 4/8 BAX05 337 Time Μ ΤМ Must use 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) BAX06 41 Interchange Train Identification 0 AN 1/10 Used Description: Train identification (free-form) BAX07 154 Standard Point Location Code \cap ID 6/9 Used Description: 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					
BAX08	127	Reference	Identification	0	AN	1/80	Used
		Description: Reference information as defined for a particular Transaction Set or specified by the Reference Identification Qualifier					n Set or as
BAX14	284	Service Le	evel Code	0	ID	2/2	Used
		Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier					ng service offered
		<u>Code</u> 01 R3 R5	<u>Name</u> Bulk Commodity Train Other Intermodal and Stack S Manifest Freight	Service			

Syntax Rules:

- 1. C1110 If BAX11 is present, then BAX10 is required.
- 2. C1211 If BAX12 is present, then BAX11 is required.

Semantics:

- 1. BAX08 is the Reader Identification Number.
- 2. BAX10 is the date the last piece of equipment passed the reader.
- 3. BAX11 is the time the last piece of equipment passed the reader.

Loop Individual or Organizational Name

User Option (Usage): Used

Purpose: To supply the full name of an individual or organizational entity

Loop Summary:

Pos	ld	Segment Name	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0210	NM1	Individual or Organizational Name	0	1		Used
0220	DMG	Demographic Information	0	1		Used
0230	DMA	Additional Demographic Information	0	1		Used
0240	REF	Reference Information	0	2		Used
0250	N3	Party Location	0	2		Used
0260	N4	Geographic Location	0	1		Used

Pos: 0210 Repeat: 999 Optional Loop: NM1 Elements: N/A

NM1 Individual or Organizational Pos: 0210 Name Loop: NM1

Pos: 0210 Max: 1 Heading - Optional Loop: NM1 Elements: 12

User Option (Usage): Used

Purpose: To supply the full name of an individual or organizational entity

Element S	Summa	ary:							
<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>			
NM101	98	Entity Identifier Code	М	ID	2/3	Must use			
		Description: Code identifying an organizat individual All valid standard codes are used.	ional ent	tity, a phy	sical location,	property or an			
NM102	1065	Entity Type Qualifier	М	ID	1/1	Must use			
		Description: Code qualifying the type of er All valid standard codes are used.	ntity						
NM103	1035	Name Last or Organization Name	Х	AN	1/60	Used			
		Description: Individual last name or organizational name							
NM104	1036	Name First	0	AN	1/35	Used			
		Description: Individual first name							
NM105	1037	Name Middle	0	AN	1/25	Used			
		Description: Individual middle name or init	ial						
NM106	1038	Name Prefix	0	AN	1/10	Used			
		Description: Prefix to individual name							
NM107	1039	Name Suffix	0	AN	1/10	Used			
		Description: Suffix to individual name							
NM108	66	Identification Code Qualifier	Х	ID	1/2	Used			
		Description: Code designating the system, Code (67) All valid standard codes are used.	/method	of code s	structure used	for Identification			
NM109	67	Identification Code	Х	AN	2/80	Used			
		Description: Code identifying a party or oth	ner code						
NM110	706	Entity Relationship Code	Х	ID	2/2	Used			
		Description: Code describing entity relation All valid standard codes are used.	nship						
NM111	98	Entity Identifier Code	0	ID	2/3	Used			
		Description: Code identifying an organizat individual All valid standard codes are used.	ional ent	iity, a phy	vsical location,	property or an			
NM112	1035	Name Last or Organization Name	0	AN	1/60	Used			
		Description: Individual last name or organi	zational	name					

Syntax Rules:

1. P0809 - If either NM108 or NM109 is present, then the other is required.

2. C1110 - If NM111 is present, then NM110 is required.

3. C1203 - If NM112 is present, then NM103 is required.

Semantics:

1. NM102 qualifies NM103.

Comments:

- 1. NM110 and NM111 further define the type of entity in NM101.
- 2. NM112 can identify a second surname.

DMG Demographic Information

Pos: 0220 Max: 1 Heading - Optional Loop: NM1 Elements: 11

User Option (Usage): Used

Purpose: To supply demographic information

Elomont S	Element Summary:								
Ref DMG01	<u>Id</u> 1250	Element Name Date Time Period Format Qualifier	<u>Req</u> X	<u>Type</u> ID	<u>Min/Max</u> 2/3	<u>Usage</u> Used			
		Description: Code indicating the date forma All valid standard codes are used .	at, time	format, o	r date and time	format			
DMG02	1251	Date Time Period	Х	AN	1/35	Used			
		Description: Expression of a date, a time, or range of dates, times or dates and times							
DMG03	1068	Gender Code	0	ID	1/1	Used			
		Description: Code indicating the sex of the individual All valid standard codes are used.							
DMG04	1067	Marital Status Code	0	ID	1/1	Used			
		Description: Code defining the marital status of a person All valid standard codes are used .							
DMG05	C056	Composite Race or Ethnicity Information	Х	Comp		Used			
		Description: To send general and detailed i	informa	tion on ra	ce or ethnicity				
DMG05-01	1109	Race or Ethnicity Code	0	ID	1/1	Used			
		Description: Code indicating the racial or ethnic background of a person; it is normally sel reported; Under certain circumstances this information is collected for United States Government statistical purposes All valid standard codes are used.							
DMG05-02	1270	Code List Qualifier Code	Х	ID	1/3	Used			
		Description: Code identifying a specific inde All valid standard codes are used .	ustry co	de list					
DMG05-03	1271	Industry Code	Х	AN	1/30	Used			
		Description: Code indicating a code from a	specific	c industry	code list				
DMG06	1066	Citizenship Status Code	0	ID	1/2	Used			
		Description: Code indicating citizenship sta All valid standard codes are used.	itus						
DMG07	26	Country Code	0	ID	2/3	Used			
		Description: Code identifying the country							
DMG08	659	Basis of Verification Code	0	ID	1/2	Used			
		Description: Code indicating the basis of ve All valid standard codes are used.	erificatio	n					
DMG09	380	Quantity	0	R	1/15	Used			
		Description: Numeric value of quantity							
DMG10	1270	Code List Qualifier Code	Х	ID	1/3	Used			
		Description: Code identifying a specific inde All valid standard codes are used.	ustry co	de list					

DMG11	1271	Industry Code	Х	AN	1/30	Used
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Description: Code indicating a code from a specific industry code list

Syntax Rules:

- 1. P0102 If either DMG01 or DMG02 is present, then the other is required.
- 2. P1011 If either DMG10 or DMG11 is present, then the other is required.
- 3. C1105 If DMG11 is present, then DMG05 is required.

Semantics:

- 1. DMG02 is the date of birth.
- 2. DMG07 is the country of citizenship.
- 3. DMG09 is the age in years.
- 4. DMG11 is used to specify how the information in DMG05, including repeats of C056, was collected.

DMA Additional Demographic Information

Pos: 0230 Max: 1 Heading - Optional Loop: NM1 Elements: 18

User Option (Usage): Used

Purpose: To supply additional demographic identification

Element S	Summa	ary:							
<u>Ref</u> DMA01	<u>ld</u> 127	Element Name Reference Identification	<u>Req</u> O	<u>Type</u> AN	<u>Min/Max</u> 1/80	<u>Usage</u> Used			
		Description: Reference information as defined by the Reference Identification Quarter of the Reference Identification Quarter of the Reference Identification Quarter of the Reference Identification of the Reference Ident		a particul	ar Transaction	Set or as			
DMA02	156	State or Province Code	0	ID	2/2	Used			
		Description: Code (Standard State/Province) as defined by appropriate government ager							
DMA03	127	Reference Identification	Х	AN	1/80	Used			
		Description: Reference information as defined by the Reference Identification Qu		a particul	ar Transaction	Set or as			
DMA04	156	State or Province Code	Х	ID	2/2	Used			
		Description: Code (Standard State/Province	ce) as de	efined by	appropriate go	vernment agency			
DMA05	1268	Applicant Type Code	0	ID	1/1	Used			
		Description: Code indicating the type of applicant All valid standard codes are used.							
DMA06	83	Code For Licensing, Certification, Registration, or Accreditation Agency	Х	ID	1/2	Used			
		Description: Code identifying a licensing, certification, registration, or accreditation agency. All valid standard codes are used.							
DMA07	26	Country Code	Х	ID	2/3	Used			
		Description: Code identifying the country							
DMA08	819	Language Code	0	ID	2/3	Used			
		Description: Code designating the language maintained by the International Standards (code list			
DMA09	546	Status Code	0	ID	2/2	Used			
		Description: Code identifying the status of real estate, or securities transaction All valid standard codes are used.	a busine	ess transa	action, such as	a claim, policy,			
DMA10	19	City Name	0	AN	2/30	Used			
		Description: Free-form text for city name							
DMA11	397	Color	0	AN	1/10	Used			
		Description: Free-form description of color	-						
DMA12	397	Color	0	AN	1/10	Used			
		Description: Free-form description of color	-						
DMA13	90	Measurement Unit Qualifier	Х	ID	1/1	Used			
		Description: Code specifying the linear din All valid standard codes are used.	nensiona	al unit					

DMA14	65	Height	Х	R	1/8	Used
		Description: Vertical dimension of an object position	measur	ed when tl	he object is in th	e upright
DMA15	188	Weight Unit Code	Х	ID	1/1	Used
		Description: Code specifying the weight unit All valid standard codes are used.	İ			
DMA16	81	Weight	Х	R	1/10	Used
		Description: Numeric value of weight				
DMA17	352	Description	0	AN	1/80	Used
		Description: A free-form description to clarify	y the rel	ated data	elements and th	eir content
DMA18	26	Country Code	0	ID	2/3	Used
		Description: Code identifying the country				

Syntax Rules:

- 1. P0304 If either DMA03 or DMA04 is present, then the other is required.
- 2. P0607 If either DMA06 or DMA07 is present, then the other is required.
- 3. C0807 If DMA08 is present, then DMA07 is required.
- 4. C0903 If DMA09 is present, then DMA03 is required.
- 5. P1314 If either DMA13 or DMA14 is present, then the other is required.
- 6. P1516 If either DMA15 or DMA16 is present, then the other is required.

Semantics:

- 1. DMA01 defines an alien registration number.
- 2. DMA02 defines the place of birth.
- 3. DMA03 defines the driver's license number.
- 4. DMA04 defines the driver's license state of issue.
- 5. DMA09 describes the status of the driver's license referenced in DMA03.
- 6. DMA10 is the City of birth.
- 7. DMA11 is eye color.
- 8. DMA12 is hair color.
- 9. DMA14 is body height.
- 10. DMA16 is body weight.
- 11. DMA17 is used to describe marks on body.
- 12. DMA18 is the country of birth.

REF Reference Information

Pos: 0240 Max: 2 Heading - Optional Loop: NM1 Elements: 4

User Option (Usage): Used Purpose: To specify identifying information

Element S	umma	iry:						
<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>		
REF01	128	Reference Identification Qualifier	М	ID	2/3	Must use		
		Description: Code qualifying the Reference All valid standard codes are used.	e Identifi	cation				
REF02	127	Reference Identification	Х	AN	1/80	Used		
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
REF03	352	Description	х	AN	1/80	Used		
		Description: A free-form description to cla	rify the re	elated dat	ta elements an	d their content		
REF04	C040	Reference Identifier	0	Comp		Used		
		Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier						
REF04-01	128	Reference Identification Qualifier	М	ID	2/3	Must use		
		Description: Code qualifying the Reference Identification All valid standard codes are used.						
REF04-02	127	Reference Identification	М	AN	1/80	Must use		
		Description: Reference information as def specified by the Reference Identification Q		a particula	ar Transaction	Set or as		
REF04-03	128	Reference Identification Qualifier	х	ID	2/3	Used		
		Description: Code qualifying the Reference All valid standard codes are used.	e Identifi	cation				
REF04-04	127	Reference Identification	Х	AN	1/80	Used		
		Description: Reference information as def specified by the Reference Identification Q		a particula	ar Transaction	Set or as		
REF04-05	128	Reference Identification Qualifier	Х	ID	2/3	Used		
		Description: Code qualifying the Reference All valid standard codes are used.	e Identifi	cation				
REF04-06	127	Reference Identification	Х	AN	1/80	Used		
Ourtes Du		Description: Reference information as def specified by the Reference Identification Q		a particula	ar Transaction	Set or as		

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

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

Elements: 2

Pos: 0250

Loop: NM1

Heading - Optional

Party Location N3

User Option (Usage): Used Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u> N301	<u>Id</u> 166	Element Name Address Information	<u>Req</u> M	<u>Type</u> AN	<u>Min/Max</u> 1/55	<u>Usage</u> Must use
		Description: Address information				
N302	166	Address Information	0	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 0260 Max: 1 Heading - Optional Loop: NM1 Elements: 7

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element	Element Summary:								
<u>Ref</u>	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>			
N401	19	City Name	0	AN	2/30	Used			
		Description: Free-form text for city name							
N402	156	State or Province Code	Х	ID	2/2	Used			
		Description: Code (Standard State/Province) as defined by appropriate government agency							
N403	116	Postal Code	0	ID	3/15	Used			
		Description: Code defining international postal zone code excluding punctuation and blank (zip code for United States)							
N404	26	Country Code	Х	ID	2/3	Used			
		Description: Code identifying the country							
N405	309	Location Qualifier	Х	ID	1/2	Used			
		Description: Code identifying type of locati All valid standard codes are used.	on						
N406	310	Location Identifier	0	AN	1/30	Used			
		Description: Code which identifies a specif	ic locatio	on					
N407	1715	Country Subdivision Code	Х	ID	1/3	Used			
		Description: Code identifying the country s	ubdivisio	on					
-									

Syntax Rules:

- 1. E0207 Only one of N402 or N407 may be present.
- 2. C0605 If N406 is present, then N405 is required.

3. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

Loop Block Identification

Pos: 0300 Repeat: 30 Mandatory Loop: W1 Elements: N/A

User Option (Usage): Must use

Purpose: To identify the block identification of a specific cut of cars relating to this interchange report

Loop Summary:

Pos	ld	Segment Name	<u>Req</u>	<u>Max Use</u>	Repeat	<u>Usage</u>
0300	W1	Block Identification	М	1		Must use
0400		Loop W2	Μ		800	Must use

Block Identification W1

Pos: 0300 Max: 1 Heading - Mandatory Loop: W1 Elements: 1

User Option (Usage): Must use Purpose: To identify the block identification of a specific cut of cars relating to this interchange report

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
W101	42	Block Identifier	Μ	AN	1/12	Must use

Description: Identifier for a block of cars

Repeat: 800

Elements: N/A

Mandatory

Pos: 0400

Loop: W2

Loop Equipment Identification

User Option (Usage): Must use

Purpose: To identify equipment and the commodity being carried

Loop Summary:

Pos	ld	Segment Name	Req	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0400	W2	Equipment Identification	Μ	1		Must use
0500	W3	Consignee Information	0	7		Used
0600	IMA	Interchange Move Authority	0	3		Used
0700	W4	Consignor Information	0	1		Used
0800	W5	Carrier and Route Information	0	4		Used
0900	W6	Special Handling Information	0	6		Used
1000	PS	Protective Service Instructions	0	5		Used
1100	REF	Reference Information	0	10		Used
1200		Loop LS	0		1	Used
2200	PER	Administrative Communications Contact	0	5		Used
2300	LH2	Hazardous Classification Information	0	1		Used
2400	LHR	Hazardous Material Identifying Reference Numbers	0	1		Used

W2 Equipment Identification

Pos: 0400 Max: 1 Heading - Mandatory Loop: W2 Elements: 16

User Option (Usage): Must use

Purpose: To identify equipment and the commodity being carried

Element	Summ	arv:					
<u>Ref</u> W201	<u>ld</u> 206	Element Na Equipment		<u>Req</u> M	<u>Type</u> AN	<u>Min/Max</u> 1/4	<u>Usage</u> Must use
		Descriptior	: Prefix or alphabetic part of an	equipm	ent unit's	identifying nu	mber
W202	207	Equipment	Number	М	AN	1/6	Must use
			n: Sequencing or serial part of an n for equipment number is prefe		nent unit	's identifying n	umber (pure
W203	22	Commodity	/ Code	0	AN	1/30	Used
		Descriptior	: Code describing a commodity	or grou	p of com	modities	
W204	40	Equipment	Description Code	M	ID	2/2	Must use
			: Code identifying type of equip			ipment	
W205	578	Code CA CC CH CM CN CX CZ ET GS HT ID LO LS OT PL PT RR SK TL TN Equipment Description Code D E L O W	Name Caboose Container resting on a Chassi Chassis Container, Open-Sided Container, Tank Refrigerated Container End of Train Device Generator Set Head of Train Device Idler Car Locomotive Half Height Flat Rack Open-top/flatbed trailer Container, Platform Protected Trailer Rail Car Stack Car Trailer (not otherwise specifier Tank Car Status Code n: Code indicating status of equil Mame Deadhead Locomotive or Cable Empty Load Operating Locomotive or Cable Revenue Empty	s d) M pment boose	ID	1/2	Must use
		AL	Empty Non-hazardous Last C				
W206	577	Net Tons		0	N0	1/3	Used

		Description	: Net weight in tons							
W207	177	Intermodal	Service Code	0	ID	1/2	Used			
		Description	: Code identifying the Intermodal	Service	e Plan					
W209	373	Date		Х	DT	8/8	Used			
		Description the calendar	: Date expressed as CCYYMMD year	D where	e CC repre	sents the first tw	vo digits of			
W210	502	Type of Loc	comotive Maintenance Code	Х	AN	2/2	Used			
		Description: Value defining locomotive maintenance schedule								
W211	206	Equipment	Initial	Х	AN	1/4	Used			
		Description: Prefix or alphabetic part of an equipment unit's identifying number								
W212	207	Equipment	Number	Х	AN	1/6	Used			
		Description numeric form	dentifying numb	er (pure						
W213	761	Equipment	Number Check Digit	0	N0	1/1	Used			
		Description	to a piece of eq	uipment						
W214	219	Position		0	AN	1/3	Used			
		Description	: Relative position of shipment in	n car, tra	iler, or con	tainer (mutually	defined)			
W215	301	Car Type Co	ode	0	ID	1/4	Used			
		Description characteristi	: Code specifying type of rail car cs	or inter	modal equi	pment type and	its general			
W217	1554	Tag Status	Code	0	ID	1/1	Used			
		Description: Code indicating the status of an Automatic Equipment Identification Tag								
		<u>Code</u> G L M R	Name Good Left Tag Bad Equipment has Two Tags and t Same No Tag Read Right Tag Bad	the Equ	ipment Initi	al and Number	are not the			
W218	1543	Equipment	Orientation Code	0	ID	1/1	Used			
		loaded; Whe equipment o	: Code indicating the direction th en used to indicate the lading orion n which it is loaded Indard codes are used.							

Syntax Rules:

1. P0910 - If either W209 or W210 is present, then the other is required.

2. P1112 - If either W211 or W212 is present, then the other is required.

Semantics:

- 1. Commodity code (W203) is STCC.
- 2. W209 is the event date.
- 3. W212 (when available) is the chassis number if W204 equals "CC".
- 4. W216 indicates if equipment needs repair. A "Y" indicates equipment needs repair; an "N" indicates equipment does not need repair.

Comments:

- 1. W208 is to contain the proper code when an empty car is being returned per ex parte 346, sub. 8. If proper code is unknown, default to 34617.
- 2. W211 (when available) is the chassis initial if W204 equals "CC". If unknown, use NONZ for chassis initial.

W3 Consignee Information

Pos: 0500 Max: 7 Heading - Optional Loop: W2 Elements: 6

User Option (Usage): Used

Purpose: To provide sufficient waybill information for delivery of shipment

Element Summary: Ref ld **Element Name** Req Type Min/Max Usage W301 186 Waybill Number Х N0 1/6Used Description: Carrier accounting number of the waybill for the inbound movement W302 373 Х DT 8/8 Used Date Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year W303 576 Abbreviated Customer Name 0 AN 2/12 Used Description: Customer name in abbreviated form W304 19 City Name Х AN 2/19Used Description: Free-form text for city name W305 156 Х 2/2 State or Province Code ID Used Description: Code (Standard State/Province) as defined by appropriate government agency W306 575 **City Name Qualifier Code** 0 ID 1/1 Used **Description:** Code qualifying city name All valid standard codes are used.

Syntax Rules:

1. P0102 - If either W301 or W302 is present, then the other is required.

2. P0405 - If either W304 or W305 is present, then the other is required.

3. C0604 - If W306 is present, then W304 is required.

Comments:

1. W302 is the waybill date.

IMA Interchange Move Authority

Pos: 0600 Max: 3 Heading - Optional Loop: W2 Elements: 4

User Option (Usage): Used

Purpose: To identify the transportation interchange authority

Element Summary:

⊏lement ∛	Summ	ary:								
<u>Ref</u>	ld	Element Na	ime	Req	Type	<u>Min/Max</u>	<u>Usage</u>			
IMA01	748	Movement	Authority Code	М	ID	1/2	Must use			
		Descriptior	: Code indicating the interchan	ge autho	ority					
		<u>Code</u>	<u>Name</u>							
		А	Released From Bad Order							
		В	Bad Order Setback							
		С	Car Not Weighed							
		D	Empty Received as a Load							
		E	Embargoed Shipment							
		G	Refused by Customer - Unne	eded						
		I	Interchanged in Error							
		L	Not in Compliance With Spec Empty	ial Car C	Order 90 (or Special Car	Order 100			
		Ν	No Record Rights							
		0	Overweight Shipment							
		Р	Intermediate Switch Carrier							
		R	Refused by Customer - Unfit							
		S	Car Applied to Shipper Car O	Car Applied to Shipper Car Order - Place for Loading						
		W	No Waybill							
		Х	Association of American Railroads Restriction							
		DS	Destination Switch Move							
		HM	Haulage Movement							
		NC	No Clearance							
		NU	Not on Universal Machine La	nguage	Equipmei	nt Register				
		OA	Old Age (Over-age)							
		OS	Origin Switch Move							
114402	140	RB Standard C	RBOX or RGON Exception	0	ID	2/4	Llood			
IMA02	140		arrier Alpha Code	0	ID	2/4	Used			
		-	: Standard Carrier Alpha Code							
IMA03	257	Tariff Appli	cation Code	0	ID	1/1	Used			
		-	a: Code indicating to which traffi	ic a tariff	applies					
		Code	Name							
		D	Reciprocal							
		E	Intraterminal							
		F	Interterminal							
IMA04	257		cation Code	0	ID	1/1	Used			
		Descriptior	Code indicating to which traffi	ic a tariff	applies					
		<u>Code</u>	<u>Name</u>							
		Ν	Interstate							
		S	Intrastate							
_										

Semantics:

- 1. IMA02 is the Standard Carrier Alpha Code (SCAC) of entity responsible for the movement authority in the IMA01.
- 2. IMA03 defines if the associated move is reciprocal, interterminal, or intraterminal.
- 3. IMA04 defines if the associated move is interstate or intrastate.

W4 Consignor Information

Pos: 0700 Max: 1 Heading - Optional Loop: W2 Elements: 5

User Option (Usage): Used

Purpose: To provide sufficient information to identify the origin of shipment

Element	Summ	ary:				
<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	Type	<u>Min/Max</u>	<u>Usage</u>
W401	576	Abbreviated Customer Name	0	AN	2/12	Used
		Description: Customer name in abbreviate	ed form			
W402	140	Standard Carrier Alpha Code	Х	ID	2/4	Used
		Description: Standard Carrier Alpha Code	9			
W403	573	Freight Station Accounting Code	Х	ID	1/5	Used
		Description: Code (Freight Station Account	nting) (AA	AR Mana	ged Code for L	ocations)
W404	19	City Name	Х	AN	2/19	Used
		Description: Free-form text for city name				
W405	156	State or Province Code	Х	ID	2/2	Used
		Description: Code (Standard State/Dravin		fined by	annranriata aa	wornmont ogon

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

Syntax Rules:

- 1. P0203 If either W402 or W403 is present, then the other is required.
- 2. R0204 At least one of W402 or W404 is required.
- 3. P0405 If either W404 or W405 is present, then the other is required.

Comments:

1. W404 and W405 are not required if W402 and W403 are supplied.

Elements: 6

Pos: 0800

Loop: W2

Heading - Optional

W5 Carrier and Route Information

User Option (Usage): Used

Purpose: To specify carrier and routing sequences and details

Element	Summa	ary:				
<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
W501	140	Standard Carrier Alpha Code	Μ	ID	2/4	Must use
		Description: Standard Carrier Alpha Code				
W502	19	City Name	0	AN	2/19	Used
		Description: Free-form text for city name				
W503	140	Standard Carrier Alpha Code	0	ID	2/4	Used
		Description: Standard Carrier Alpha Code				
W504	19	City Name	0	AN	2/30	Used
		Description: Free-form text for city name				
W505	140	Standard Carrier Alpha Code	0	ID	2/4	Used
		Description: Standard Carrier Alpha Code				
W506	19	City Name	0	AN	2/30	Used
		Description: Free-form text for city name				

Comments:

1. W502, W504, and W506 is the station or city name at which carriers interchange shipments.

Elements: 4

Pos: 0900

Loop: W2

Heading - Optional

W6 Special Handling Information

User Option (Usage): Used

Purpose: To provide special handling information that may be necessary for safe handling of shipment

Element Summary: Element Name Ref ld Req Type Min/Max Usage W601 152 Special Handling Code Μ ID 2/3Must use Description: Code specifying special transportation handling instructions All valid standard codes are used. W602 152 **Special Handling Code** 0 ID 2/3 Used Description: Code specifying special transportation handling instructions All valid standard codes are used. W603 152 Special Handling Code 0 ID 2/3 Used Description: Code specifying special transportation handling instructions All valid standard codes are used. W604 152 Special Handling Code 0 ID 2/3 Used Description: Code specifying special transportation handling instructions All valid standard codes are used.

Elements: 13

Pos: 1000

Loop: W2

Heading - Optional

Protective Service PS Instructions

User Option (Usage): Used Purpose: To specify mechanical protective service and ventilation instructions

Element S	Summa	ary:							
<u>Ref</u> PS01	<u>ld</u> 746	Element Na	<u>ame</u> Service Rule Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 3/9	<u>Usage</u> Must use		
		Description shipment	n: Association of American Railr	roads (A/	AR) Prote	ective Service	that applies to		
PS02	241	Protective	Service Code	М	ID	1/4	Must use		
		Description	n: Code specifying perishable p	rotective	service-	rail carriers on	lly		
		<u>Code</u> D M MN HDN HSC MNU HDNC	DDiscontinue ServiceMStandard Mechanical Protective ServiceMNModified Mechanical Protective ServiceHDNDo Not HeatHSCStandard Heating In CanadaMNUDo Not OperateHDNCDo Not Heat in Canada						
PS03	355	Unit or Bas	sis for Measurement Code	Х	ID	2/2	Used		
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken							
		<u>Code</u> CE FA	<u>Name</u> Centigrade, Celsius Fahrenheit						
PS04	408	Temperatu	Temperature			1/4	Used		
		Description	n: Temperature						
PS05	140	Standard C	Carrier Alpha Code	0	ID	2/4	Used		
		Description	n: Standard Carrier Alpha Code						
PS06	573	Freight Sta	tion Accounting Code	0	ID	1/5	Used		
		Description	n: Code (Freight Station Accour	nting) (AA	AR Mana	ged Code for L	ocations)		
PS07	19	City Name		0	AN	2/19	Used		
		Description	n: Free-form text for city name						
PS08	156	State or Pr	ovince Code	0	ID	2/2	Used		
		Description	n: Code (Standard State/Provinc	ce) as de	fined by	appropriate go	overnment agency		
PS10	745	Pre-Coolec	l (Rule 710) Code	0	ID	1/1	Used		
		American R	n: Code indicating whether or no ailroads Protective Service Rule andard codes are used.		pment w	as precooled p	per Association of		
PS11	1073	Yes/No Co	ndition or Response Code	0	ID	1/1	Used		
Description: Code indicating a Yes or No condition or response									
		<u>Code</u>	Name						

		N Y	No Yes					
PS12	1073	Yes/No Cor	ndition or Response Code	0	ID	1/1	Used	
		Description	: Code indicating a Yes or No co	condition or response				
		<u>Code</u> N Y	<u>Name</u> No Yes					
PS13	1073	Yes/No Cor	ndition or Response Code	0	ID	1/1	Used	
		Description	a: Code indicating a Yes or No co	o condition or response				
		<u>Code</u> N Y	<u>Name</u> No Yes					
PS14	408	Temperatur Description	re n: Temperature	Х	R	1/4	Used	

Syntax Rules:

- 1. L030414 If PS03 is present, then at least one of PS04 or PS14 is required.
- 2. C0403 If PS04 is present, then PS03 is required.
- 3. C1403 If PS14 is present, then PS03 is required.

Semantics:

- 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.

REF Reference Information

Pos: 1100 Max: 10 Heading - Optional Loop: W2 Elements: 3

User Option (Usage): Used Purpose: To specify identifying information

Element Summary:							
<u>Ref</u>	<u>ld</u>	Element Nar	ne	Req	Туре	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference lo	dentification Qualifier	М	ID	2/3	Must use
		Description	Code qualifying the Reference	Identific	cation		
		Code BC BL BM BN CG CO CR CX F9 OB SC SI VI ZE	Name Buyer's Contract Number Government Bill of Lading Bill of Lading Number Booking Number Consignee's Order Number Customer Order Number Customer Reference Number Consignment Classification ID Freight Payor Reference Number Ocean Bill of Lading Shipper Car Order Number Shipper's Identifying Number for Pool Number Coal Authority Number	or Shipn	,	,	
REF02	127	CUB Reference lo	U.S. Customs Service (USCS)	X	AN	1/80	Used
		Description	Reference information as define the Reference Identification Qua	ed for a			
REF03	352	Description		Х	AN	1/80	Used
		Description	A free-form description to clarify	y the re	lated dat	a elements a	nd their content

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

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

Loop Loop Header

Pos: 1200 Repeat: 1 Optional Loop: LS Elements: N/A

User Option (Usage): Used

Purpose: To indicate that the next segment begins a loop

Loop Summary:

Pos	ld	Segment Name	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
1200	LS	Loop Header	0	1		Used
1300		Loop LH1	0		1000	Used
2100	LE	Loop Trailer	Μ	1		Used

LS Loop Header

Pos: 1200	Max: 1
Heading	- Optional
Loop: LS	Elements: 1

User Option (Usage): Used Purpose: To indicate that the next segment begins a loop

Element Summary:							
<u>Ref</u>	ld	Element Name	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
LS01	447	Loop Identifier Code	Μ	AN	1/4	Must use	

Description: The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE

Semantics:

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.

Loop Hazardous Identification Information

Pos: 1300 Repeat: 1000 Optional Loop: LH1 Elements: N/A

User Option (Usage): Used

Purpose: To specify the hazardous commodity identification reference number and quantity

Loop Summary:

Pos	ld	Segment Name	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
1300	LH1	Hazardous Identification Information	0	1		Used
1400	LH2	Hazardous Classification Information	0	4		Used
1500	LH3	Hazardous Material Shipping Name Information	0	10		Used
1600	LFH	Free-form Hazardous Material Information	0	20		Used
1700	LEP	EPA Required Data	0	3		Used
1800	LH4	Canadian Dangerous Requirements	0	4		Used
1900	LHT	Transborder Hazardous Requirements	0	3		Used
2000	LHR	Hazardous Material Identifying Reference Numbers	0	5		Used
2050	PER	Administrative Communications Contact	0	5		Used
2060		Loop N1	0		10	Used

Hazardous Identification LH1 Information

Pos: 1300 Max: 1 **Heading - Optional** Loop: LH1 Elements: 12

User Option (Usage): Used Purpose: To specify the hazardous commodity identification reference number and quantity

Element Summary:

<u>Ref</u> LH101	<u>ld</u> 355	Element Name Unit or Basis for Measurement Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Must use	
		Description: Code specifying the units in w which a measurement has been taken All valid standard codes are used.	hich a v	alue is b	eing expresse	d, or manner in	
LH102	80	Lading Quantity	М	N0	1/7	Must use	
		Description: Number of units (pieces) of the lading commodity					
LH103	277	UN/NA Identification Code	0	ID	6/6	Used	
		Description: Code identifying the hazardou Title 49 of the code of Federal Regulations;					
LH104	200	Hazardous Materials Page	0	AN	1/6	Used	
		Description: The United Nations page num hazardous materials	iber as i	equired 1	for the internat	tional transport of	
LH105	22	Commodity Code	0	AN	1/30	Used	
		Description: Code describing a commodity	or grou	p of com	modities		
LH106	355	Unit or Basis for Measurement Code	0	ID	2/2	Used	
		Description: Code specifying the units in w which a measurement has been taken All valid standard codes are used.	hich a v	alue is b	eing expresse	d, or manner in	
LH107	380	Quantity	0	R	1/15	Used	
		Description: Numeric value of quantity					
LH108	595	Compartment ID Code	0	ID	1/1	Used	
		Description: Code identifying the compartn All valid standard codes are used.	nent in a	a compar	tmentalized ta	nk car	
LH109	665	Residue Indicator Code	0	ID	1/1	Used	
		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.					
LH110	254	Packing Group Code	0	ID	1/3	Used	
		Description: Code indicating degree of dar	nger in t	erms of F	Roman numbe	r I, II or III	
LH111	1375	Interim Hazardous Material Regulatory Number	0	AN	1/5	Used	
		Description: Identifies the current regulator shipments	y versio	on numbe	er used for haz	ardous materials	
LH112	1271	Industry Code	0	AN	1/30	Used	
		Description: Code indicating a code from a	specifi	c industry	/ code list		

Semantics:

1. LH112 is the packaging form code for the non-bulk container passed in the LH101 as defined in 49 CFR 178 and required by 49 CFR 172. (See Code Source 937)

Comments:

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

LH2 Hazardous Classification Information

Pos: 1400 Max: 4 Heading - Optional Loop: LH1 Elements: 13

User Option (Usage): Used

Purpose: To specify the hazardous notation and endorsement information

Element	Summ	ary:					
<u>Ref</u> LH201	<u>ld</u> 215	Element Name Hazardous Classification	<u>Req</u> O	<u>Type</u> ID	<u>Min/Max</u> 1/30	<u>Usage</u> Used	
		Description: The hazardous classification c hazardous commodity	orrespo	nding to	the shipping na	ame of the	
LH202	983	Hazardous Class Qualifier	0	ID	1/1	Used	
		Description: Code qualifying hazardous cla All valid standard codes are used .	ISS				
LH203	218	Hazardous Placard Notation	0	ID	14/40	Used	
		Description: The placard notation corresponding to the hazard class of the hazardous commodity					
LH204	222	Hazardous Endorsement	0	ID	4/25	Used	
		Description: The placard endorsement that hazardous commodity	is to be	e shown d	on the shipping	papers for the	
LH205	759	Reportable Quantity Code	0	ID	2/2	Used	
		Description: Code to identify presence of h All valid standard codes are used.	azardou	ıs substa	nce		
LH206	355	Unit or Basis for Measurement Code	Х	ID	2/2	Used	
		Description: Code specifying the units in which a measurement has been taken All valid standard codes are used.	hich a v	alue is b	eing expressed	, or manner in	
LH207	408	Temperature	Х	R	1/4	Used	
		Description: Temperature					
LH208	355	Unit or Basis for Measurement Code	Х	ID	2/2	Used	
		Description: Code specifying the units in which a measurement has been taken All valid standard codes are used.	hich a v	alue is b	eing expressed	, or manner in	
LH209	408	Temperature	Х	R	1/4	Used	
		Description: Temperature					
LH210	355	Unit or Basis for Measurement Code	Х	ID	2/2	Used	
		Description: Code specifying the units in which a measurement has been taken All valid standard codes are used.	hich a v	alue is b	eing expressed	, or manner in	
LH211	408	Temperature	Х	R	1/4	Used	
		Description: Temperature					
LH212	188	Weight Unit Code	Х	ID	1/1	Used	
		Description: Code specifying the weight un All valid standard codes are used.	it				

LH213	267	Net Explosive Quantity	Х	N0	1/10	Used

Description: Net weight of the explosive quantity of the hazardous commodity

Syntax Rules:

- 1. P0607 If either LH206 or LH207 $\,$ is present, then the other is required.
- 2. P0809 If either LH208 or LH209 $\,$ is present, then the other is required.
- 3. P1011 If either LH210 or LH211 is present, then the other is required.
- 4. P1213 If either LH212 or LH213 is present, then the other is 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.
- 4. LH212 and LH213 indicate the net explosive weight.

LH3 Hazardous Material Shipping Name Information

Pos: 1500 Max: 10 Heading - Optional Loop: LH1 Elements: 4

User Option (Usage): Used

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

Element Summary:

<u>Ref</u> LH301	<u>ld</u> 224	<u>Element Name</u> Hazardous Material Shipping Name	<u>Req</u> X	<u>Type</u> AN	<u>Min/Max</u> 1/25	<u>Usage</u> Used			
		Description: 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	Х	ID	1/1	Used			
		Description: Qualifier indicating the source All valid standard codes are used.	(regula	tory) of th	ne proper shipp	ing name			
LH303	985	N.O.S. Indicator Code	0	ID	3/3	Used			
		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.							
LH304	1073	Yes/No Condition or Response Code	0	ID	1/1	Used			
		Description: Code indicating a Yes or No c All valid standard codes are used.	condition	or respo	onse				

Syntax Rules:

1. P0102 - If either LH301 or LH302 is present, then the other is 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 Free-form Hazardous Material Information

Pos: 1600 Max: 20 Heading - Optional Loop: LH1 Elements: 8

User Option (Usage): Used

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

Element Summary:

Ref LFH01	<u>ld</u> 808	Element Name Hazardous Material Shipment Information Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 3/3	<u>Usage</u> Must use			
		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.							
LFH02	809	Hazardous Material Shipment Information	М	AN	1/25	Must use			
		Description: Specific information required by law for hazardous material shipments							
LFH03	809	Hazardous Material Shipment Information	0	AN	1/25	Used			
		Description: Specific information required by law for hazardous material shipments							
LFH04	1023	Hazard Zone Code	0	ID	1/1	Used			
		Description: Code specifying the Departm the Inhalation Toxicity Hazard Zone All valid standard codes are used.	ent of Tr	ansporta	tion assigned z	cone designating			
LFH05	355	Unit or Basis for Measurement Code	Х	ID	2/2	Used			
		Description: Code specifying the units in w which a measurement has been taken All valid standard codes are used.	vhich a v	alue is be	eing expressed	l, or manner in			
LFH06	380	Quantity	Х	R	1/15	Used			
		Description: Numeric value of quantity							
LFH07	380	Quantity	0	R	1/15	Used			
		Description: Numeric value of quantity							
LFH08	373	Date	0	DT	8/8	Used			
		Description: Date expressed as CCYYMN the calendar year	1DD whe	re CC rej	presents the fir	st two digits of			

Syntax Rules:

1. P0506 - If either LFH05 or LFH06 is present, then the other is required.

Semantics:

- 1. LFH06 indicates activity of the radioactive material.
- 2. LFH07 indicates transport index of the radioactive material.
- 3. LFH08 is the date fumigation began.

LEP EPA Required Data

Pos: 1700 Max: 3 Heading - Optional Loop: LH1 Elements: 4

User Option (Usage): Used

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

Element Summary:

<u>Ref</u> LEP01	<u>Id</u> 806	<u>Element Name</u> EPA Waste Stream Number Code	<u>Req</u> O	<u>Type</u> ID	<u>Min/Max</u> 4/6	<u>Usage</u> Used			
		Description: Waste stream number applicable to the movement of hazardous waste as determined by government regulations							
LEP02	807	Waste Characteristics Code	0	ID	12/16	Used			
		Description: Waste characteristics as defin	ed by re	gulatory	requirements				
LEP03	156	State or Province Code	Х	ID	2/2	Used			
		Description: Code (Standard State/Provinc	e) as de	fined by	appropriate go	overnment agency			
LEP04	127	Reference Identification	Х	AN	1/80	Used			
	Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier								

Syntax Rules:

1. P0304 - If either LEP03 or LEP04 is present, then the other is 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.

Max: 4

Elements: 12

Pos: 1800

Loop: LH1

Heading - Optional

LH4 Canadian Dangerous Requirements

User Option (Usage): Used

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

Element Summary: Ref ld Element Name Min/Max Req Type Usage I H401 238 Emergency Response Plan Number Х AN 1/12Used **Description:** The identity number of a specific hazardous emergency response plan that is assigned by the Director General of Canada LH402 364 **Communication Number** Х AN 1/256 Used Description: Complete communications number including country or area code when applicable ID LH403 254 Packing Group Code \cap 1/3Used Description: Code indicating degree of danger in terms of Roman number I, II or III LH404 230 Subsidiary Classification \cap ID 1/3Used Description: Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers Subsidiary Classification LH405 230 \cap ID Used 1/3**Description:** Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers LH406 230 Subsidiary Classification \cap 1/3Used **Description:** Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers Subsidiary Risk Indicator LH407 271 0 ID 1/2Used Description: Code identifying the type of subsidiary risk All valid standard codes are used. LH408 267 Net Explosive Quantity Х N0 1/10Used **Description:** Net weight of the explosive quantity of the hazardous commodity LH409 805 **Canadian Hazardous Notation** 0 AN 1/25Used Description: Notation required by Canadian regulatory agencies LH410 0 986 **Special Commodity Indicator Code** ID 1/1Used 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. 0 LH411 364 **Communication Number** AN 1/256 Used Description: Complete communications number including country or area code when applicable 355 LH412 Unit or Basis for Measurement Code Х ID 2/2Used **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.

Syntax Rules:

- 1. P0102 If either LH401 or LH402 is present, then the other is required.
- 2. P0812 If either LH408 or LH412 is present, then the other is 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: 1900 Max: 3 Heading - Optional Loop: LH1 Elements: 3

User Option (Usage): Used

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

Element Summary:

<u>Ref</u> LHT01	<u>ld</u> 215	<u>Element Name</u> Hazardous Classification	<u>Req</u> O	<u>Type</u> ID	<u>Min/Max</u> 1/30	<u>Usage</u> Used
		Description: The hazardous classification of hazardous commodity	correspo	onding to	the shipping na	ame of the
LHT02	218	Hazardous Placard Notation	0	ID	14/40	Used
		Description: The placard notation correspondence commodity	onding to	the haza	ard class of the	hazardous
LHT03	222	Hazardous Endorsement	0	ID	4/25	Used
		Description: The placard endorsement tha hazardous commodity	t is to be	e shown o	on the shipping	papers for the

LHR Hazardous Material Identifying Reference Numbers

Pos: 2000 Max: 5 Heading - Optional Loop: LH1 Elements: 3

User Option (Usage): Used

Purpose: To transmit specific hazardous material reference numbers

Element Summary:								
<u>Ref</u>	ld	Element Name	<u>Req</u>	Туре	<u>Min/Max</u>	<u>Usage</u>		
LHR01	128	Reference Identification Qualifier	Μ	ID	2/3	Must use		
		Description: Code qualifying the Reference All valid standard codes are used.	e Identifi	cation				
LHR02	127	Reference Identification	М	AN	1/80	Must use		
		Description: Reference information as defined by the Reference Identification Qu		a particul	ar Transaction	Set or as		
LHR03	373	Date	0	DT	8/8	Used		
		Description: Date expressed as CCYYMM the calendar year	DD whe	re CC rep	presents the fi	rst two digits of		

PER Administrative Communications Contact

User Option (Usage): Used

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

Element	Element Summary:									
<u>Ref</u> PER01	<u>ld</u> 366	Element Name Contact Function Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Must use				
		Description: Code identifying the major du All valid standard codes are used.	Description: Code identifying the major duty or responsibility of the person or group name All valid standard codes are used.							
PER02	93	Name	0	AN	1/60	Used				
		Description: Free-form name								
PER03	365	Communication Number Qualifier	Х	ID	2/2	Used				
		Description: Code identifying the type of communication number All valid standard codes are used.								
PER04	364	Communication Number	Х	AN	1/256	Used				
		Description: Complete communications number including country or area code when applicable								
PER05	365	Communication Number Qualifier	Х	ID	2/2	Used				
		Description: Code identifying the type of c All valid standard codes are used.	communio	cation nu	mber					
PER06	364	Communication Number	Х	AN	1/256	Used				
		Description: Complete communications nu applicable	umber ind	cluding c	ountry or area	code when				
PER07	365	Communication Number Qualifier	Х	ID	2/2	Used				
		Description: Code identifying the type of c All valid standard codes are used.	communio	cation nu	mber					
PER08	364	Communication Number	Х	AN	1/256	Used				
		Description: Complete communications nu applicable	umber ind	cluding c	ountry or area	code when				
PER09	443	Contact Inquiry Reference	0	AN	1/20	Used				
		Description: Additional reference number	or descri	ption to c	clarify a contac	t number				
0										

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.

2. P0506 - If either PER05 or PER06 is present, then the other is required.

3. P0708 - If either PER07 or PER08 is present, then the other is required.

Loop Party Identification

User Option (Usage): Used

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

Loop Summary:

Pos	ld	Segment Name	Req	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
2060	N1	Party Identification	0	1		Used
2070	N3	Party Location	0	2		Used
2080	N4	Geographic Location	0	1		Used
2090	PER	Administrative Communications Contact	0	2		Used

N1 Party Identification

Pos: 2060 Max: 1 Heading - Optional Loop: N1 Elements: 6

User Option (Usage): Used **Purpose:** To identify a party by type of organization, name, and code

Element Summary:							
<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
N101	98	Entity Identifier Code	М	ID	2/3	Must use	
		Description: Code identifying an organizati individual All valid standard codes are used.	ional ent	ity, a phy	vsical location,	property or an	
N102	93	Name	Х	AN	1/60	Used	
		Description: Free-form name					
N103	66	Identification Code Qualifier	Х	ID	1/2	Used	
		Description: Code designating the system/ Code (67) All valid standard codes are used.	/method	of code s	structure used	for Identification	
N104	67	Identification Code	Х	AN	2/80	Used	
		Description: Code identifying a party or oth	ner code				
N105	706	Entity Relationship Code	0	ID	2/2	Used	
		Description: Code describing entity relation All valid standard codes are used.	nship				
N106	98	Entity Identifier Code	0	ID	2/3	Used	
		Description: Code identifying an organizati individual All valid standard codes are used.	ional ent	ity, a phy	vsical location,	property or an	

Syntax Rules:

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

Max: 2

Elements: 2

Pos: 2070

Loop: N1

Heading - Optional

Party Location N3

User Option (Usage): Used Purpose: To specify the location of the named party

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
N301	166	Address Information	Μ	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	0	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 2080 Max: 1 Heading - Optional Loop: N1 Elements: 7

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:							
<u>Ref</u>	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>	
N401	19	City Name	0	AN	2/30	Used	
		Description: Free-form text for city name					
N402	156	State or Province Code	Х	ID	2/2	Used	
		Description: Code (Standard State/Provinc	e) as de	fined by	appropriate go	overnment agency	
N403	116	Postal Code	0	ID	3/15	Used	
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)					
N404	26	Country Code	Х	ID	2/3	Used	
		Description: Code identifying the country					
N405	309	Location Qualifier	Х	ID	1/2	Used	
		Description: Code identifying type of locati All valid standard codes are used.	on				
N406	310	Location Identifier	0	AN	1/30	Used	
		Description: Code which identifies a specif	ic locatio	on			
N407	1715	Country Subdivision Code	Х	ID	1/3	Used	
		Description: Code identifying the country s	ubdivisio	on			
_							

Syntax Rules:

- 1. E0207 Only one of N402 or N407 may be present.
- 2. C0605 If N406 is present, then N405 is required.

3. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

PER Administrative Communications Contact

User Option (Usage): Used

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

Element Summary:							
<u>Ref</u> PER01	<u>ld</u> 366	Element Name Contact Function Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Must use	
		Description: Code identifying the major du All valid standard codes are used.	ity or res	ponsibilit	y of the persor	n or group named	
PER02	93	Name	0	AN	1/60	Used	
		Description: Free-form name					
PER03	365	Communication Number Qualifier	Х	ID	2/2	Used	
		Description: Code identifying the type of c All valid standard codes are used.	communio	cation nu	mber		
PER04	364	Communication Number	Х	AN	1/256	Used	
		Description: Complete communications no applicable	umber ind	cluding c	ountry or area	code when	
PER05	365	Communication Number Qualifier	Х	ID	2/2	Used	
		Description: Code identifying the type of c All valid standard codes are used.	communio	cation nu	mber		
PER06	364	Communication Number	Х	AN	1/256	Used	
		Description: Complete communications nu applicable	umber ind	cluding c	ountry or area	code when	
PER07	365	Communication Number Qualifier	Х	ID	2/2	Used	
		Description: Code identifying the type of c All valid standard codes are used.	communio	cation nu	mber		
PER08	364	Communication Number	Х	AN	1/256	Used	
		Description: Complete communications nu applicable	umber ind	cluding c	ountry or area	code when	
PER09	443	Contact Inquiry Reference	0	AN	1/20	Used	
		Description: Additional reference number	or descri	ption to c	clarify a contac	t number	
O. minero D.							

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.

2. P0506 - If either PER05 or PER06 is present, then the other is required.

3. P0708 - If either PER07 or PER08 is present, then the other is required.

LE Loop Trailer

Pos: 2100 Max: 1 Heading - Mandatory Loop: LS Elements: 1

User Option (Usage): Used

Purpose: To indicate that the loop immediately preceding this segment is complete

Element Summary:							
<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	Type	<u>Min/Max</u>	<u>Usage</u>	
LE01	447	Loop Identifier Code	М	AN	1/4	Must use	

Description: The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE

Semantics:

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.

PER Administrative Communications Contact

Pos: 2200 Max: 5 Heading - Optional Loop: W2 Elements: 9

User Option (Usage): Used

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

Element Summary:							
<u>Ref</u> PER01	<u>ld</u> 366	Element Name Contact Function Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Must use	
		Description: Code identifying the major du All valid standard codes are used.	ity or res	ponsibilit	y of the persor	n or group named	
PER02	93	Name	0	AN	1/60	Used	
		Description: Free-form name					
PER03	365	Communication Number Qualifier	Х	ID	2/2	Used	
		Description: Code identifying the type of c All valid standard codes are used.	communic	cation nu	mber		
PER04	364	Communication Number	Х	AN	1/256	Used	
		Description: Complete communications no applicable	umber ind	cluding c	ountry or area	code when	
PER05	365	Communication Number Qualifier	Х	ID	2/2	Used	
		Description: Code identifying the type of c All valid standard codes are used.	ommunio	cation nu	mber		
PER06	364	Communication Number	Х	AN	1/256	Used	
		Description: Complete communications no applicable	umber ind	cluding c	ountry or area	code when	
PER07	365	Communication Number Qualifier	Х	ID	2/2	Used	
		Description: Code identifying the type of c All valid standard codes are used.	communic	cation nu	mber		
PER08	364	Communication Number	Х	AN	1/256	Used	
		Description: Complete communications no applicable	umber ind	cluding c	ountry or area	code when	
PER09	443	Contact Inquiry Reference	0	AN	1/20	Used	
		Description: Additional reference number	or descri	ption to c	clarify a contac	t number	
Outration D							

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.

2. P0506 - If either PER05 or PER06 is present, then the other is required.

3. P0708 - If either PER07 or PER08 is present, then the other is required.

LH2 Hazardous Classification Information

Pos: 2300 Max: 1 Heading - Optional Loop: W2 Elements: 13

User Option (Usage): Used

Purpose: To specify the hazardous notation and endorsement information

Element	Summ	ary:				
<u>Ref</u> LH201	<u>ld</u> 215	Element Name Hazardous Classification	<u>Req</u> 0	<u>Type</u> ID	<u>Min/Max</u> 1/30	<u>Usage</u> Used
		Description: The hazardous classification of hazardous commodity	correspo	nding to	the shipping na	ame of the
LH202	983	Hazardous Class Qualifier	0	ID	1/1	Used
		Description: Code qualifying hazardous cla All valid standard codes are used.	ass			
LH203	218	Hazardous Placard Notation	0	ID	14/40	Used
		Description: The placard notation correspondence commodity	onding to	the haza	ard class of the	hazardous
LH204	222	Hazardous Endorsement	0	ID	4/25	Used
		Description: The placard endorsement that hazardous commodity	t is to be	e shown c	on the shipping	papers for the
LH205	759	Reportable Quantity Code	0	ID	2/2	Used
		Description: Code to identify presence of h All valid standard codes are used.	nazardou	ıs substa	nce	
LH206	355	Unit or Basis for Measurement Code	Х	ID	2/2	Used
		Description: Code specifying the units in w which a measurement has been taken All valid standard codes are used.	/hich a v	alue is be	eing expressed	, or manner in
LH207	408	Temperature	Х	R	1/4	Used
		Description: Temperature				
LH208	355	Unit or Basis for Measurement Code	Х	ID	2/2	Used
		Description: Code specifying the units in w which a measurement has been taken All valid standard codes are used.	/hich a v	alue is be	eing expressed	, or manner in
LH209	408	Temperature	Х	R	1/4	Used
		Description: Temperature				
LH210	355	Unit or Basis for Measurement Code	Х	ID	2/2	Used
		Description: Code specifying the units in w which a measurement has been taken All valid standard codes are used.	/hich a v	alue is be	eing expressed	, or manner in
LH211	408	Temperature	Х	R	1/4	Used
		Description: Temperature				
LH212	188	Weight Unit Code	Х	ID	1/1	Used
		Description: Code specifying the weight ur All valid standard codes are used.	nit			

LH213	267	Net Explosive Quantity	Х	N0	1/10	Used

Description: Net weight of the explosive quantity of the hazardous commodity

Syntax Rules:

- 1. P0607 If either LH206 or LH207 $\,$ is present, then the other is required.
- 2. P0809 If either LH208 or LH209 $\,$ is present, then the other is required.
- 3. P1011 If either LH210 or LH211 is present, then the other is required.
- 4. P1213 If either LH212 or LH213 is present, then the other is 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.
- 4. LH212 and LH213 indicate the net explosive weight.

LHR Hazardous Material Identifying Reference Numbers

Pos: 2400 Max: 1 Heading - Optional Loop: W2 Elements: 3

User Option (Usage): Used

Purpose: To transmit specific hazardous material reference numbers

Element Summary:							
<u>Ref</u>	ld	Element Name	<u>Req</u>	Туре	<u>Min/Max</u>	<u>Usage</u>	
LHR01	128	Reference Identification Qualifier	М	ID	2/3	Must use	
		Description: Code qualifying the Reference All valid standard codes are used.	e Identifi	cation			
LHR02	127	Reference Identification	М	AN	1/80	Must use	
		Description: Reference information as defi specified by the Reference Identification Qu		a particul	ar Transaction	Set or as	
LHR03	373	Date	0	DT	8/8	Used	
		Description: Date expressed as CCYYMM the calendar year	DD whe	re CC rep	presents the fi	rst two digits of	

SE Transaction Set Trailer

Pos: 2500 Max: 1 Heading - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

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)

Element Summary:

<u>Ref</u>	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	М	N0	1/10	Must use
		Description: Total number of segments inc segments	luded in	a transa	ction set includ	ling ST and SE
SE02	329	Transaction Set Control Number	М	AN	4/9	Must use
Description: Identifying control number that must be unique within the trans functional group assigned by the originator for a transaction set						saction set

Comments:

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