



# **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=IC

**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:**

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

2000	LHR	Requirements Hazardous Material Identifying Reference Numbers	O	5		Used
2050	PER	Administrative Communications Contact	O	5		Used
<b>LOOP ID - N1</b>			-	-	<b>10</b>	-
2060	N1	Party Identification	O	1		Used
2070	N3	Party Location	O	2		Used
2080	N4	Geographic Location	O	1		Used
2090	PER	Administrative Communications Contact	O	2		Used
2100	LE	Loop Trailer	M	1		Used
2200	PER	Administrative Communications Contact	O	5		Used
2300	LH2	Hazardous Classification Information	O	1	N1/2300	Used
2400	LHR	Hazardous Material Identifying Reference Numbers	O	1		Used
2500	SE	Transaction Set Trailer	M	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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	<b>Transaction Set Identifier Code</b>	M	ID	3/3	Must use
		<b>Description:</b> Code uniquely identifying a Transaction Set				
		<u>Code</u>		<u>Name</u>		
		418		Rail Advance Interchange Consist		
ST02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Must use
		<b>Description:</b> Identifying control number that must be unique within the transaction set 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).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

# 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BAX01	154	<b>Standard Point Location Code</b>	M	ID	6/9	Must use
<b>Description:</b> 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	579	<b>Type of Consist Code</b>	M	ID	1/1	Must use
<b>Description:</b> Code indicating the type of consist						
		<u>Code</u>		<u>Name</u>		
		A		Advance Automatic Equipment Identification (AEI) Consist		
		B		Bad Order		
		D		Detour		
		J		Joint Track		
		L		Information Only Advanced Consist		
		P		Passing		
		R		Release from Bad Order		
		S		Switch		
		T		Train (Normal Advanced)		
		Y		Actual Interchange		
BAX03	374	<b>Date/Time Qualifier</b>	M	ID	3/3	Must use
<b>Description:</b> Code specifying type of date or time, or both date and time						
		<u>Code</u>		<u>Name</u>		
		139		Estimated		
		140		Actual		
BAX04	373	<b>Date</b>	M	DT	8/8	Must use
<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year						
BAX05	337	<b>Time</b>	M	TM	4/8	Must use
<b>Description:</b> 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	<b>Interchange Train Identification</b>	O	AN	1/10	Used
<b>Description:</b> Train identification (free-form)						
BAX07	154	<b>Standard Point Location Code</b>	O	ID	6/9	Used
<b>Description:</b> 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	<b>Reference Identification</b>	O	AN	1/80	Used
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**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

BAX14	284	<b>Service Level Code</b>	O	ID	2/2	Used
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**Description:** Code indicating the level of transportation service or the billing service offered by the transportation carrier

<u>Code</u>	<u>Name</u>
01	Bulk Commodity Train
R3	Other Intermodal and Stack Service
R5	Manifest Freight

### 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

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

**User Option (Usage):** Used

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

## Loop Summary:

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



# NM1 Individual or Organizational Name

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 Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
NM101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>				
NM102	1065	<b>Entity Type Qualifier</b>	M	ID	1/1	Must use
		<b>Description:</b> Code qualifying the type of entity <b>All valid standard codes are used.</b>				
NM103	1035	<b>Name Last or Organization Name</b>	X	AN	1/60	Used
		<b>Description:</b> Individual last name or organizational name				
NM104	1036	<b>Name First</b>	O	AN	1/35	Used
		<b>Description:</b> Individual first name				
NM105	1037	<b>Name Middle</b>	O	AN	1/25	Used
		<b>Description:</b> Individual middle name or initial				
NM106	1038	<b>Name Prefix</b>	O	AN	1/10	Used
		<b>Description:</b> Prefix to individual name				
NM107	1039	<b>Name Suffix</b>	O	AN	1/10	Used
		<b>Description:</b> Suffix to individual name				
NM108	66	<b>Identification Code Qualifier</b>	X	ID	1/2	Used
		<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <b>All valid standard codes are used.</b>				
NM109	67	<b>Identification Code</b>	X	AN	2/80	Used
		<b>Description:</b> Code identifying a party or other code				
NM110	706	<b>Entity Relationship Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code describing entity relationship <b>All valid standard codes are used.</b>				
NM111	98	<b>Entity Identifier Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>				
NM112	1035	<b>Name Last or Organization Name</b>	O	AN	1/60	Used
		<b>Description:</b> Individual last name or organizational 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

## Element Summary:

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

DMG11 1271 **Industry Code** X AN 1/30 Used

**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 Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DMA01	127	<b>Reference Identification</b>	O	AN	1/80	Used
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
DMA02	156	<b>State or Province Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
DMA03	127	<b>Reference Identification</b>	X	AN	1/80	Used
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
DMA04	156	<b>State or Province Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
DMA05	1268	<b>Applicant Type Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating the type of applicant <b>All valid standard codes are used.</b>				
DMA06	83	<b>Code For Licensing, Certification, Registration, or Accreditation Agency</b>	X	ID	1/2	Used
		<b>Description:</b> Code identifying a licensing, certification, registration, or accreditation agency. <b>All valid standard codes are used.</b>				
DMA07	26	<b>Country Code</b>	X	ID	2/3	Used
		<b>Description:</b> Code identifying the country				
DMA08	819	<b>Language Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)				
DMA09	546	<b>Status Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code identifying the status of a business transaction, such as a claim, policy, real estate, or securities transaction <b>All valid standard codes are used.</b>				
DMA10	19	<b>City Name</b>	O	AN	2/30	Used
		<b>Description:</b> Free-form text for city name				
DMA11	397	<b>Color</b>	O	AN	1/10	Used
		<b>Description:</b> Free-form description of color				
DMA12	397	<b>Color</b>	O	AN	1/10	Used
		<b>Description:</b> Free-form description of color				
DMA13	90	<b>Measurement Unit Qualifier</b>	X	ID	1/1	Used
		<b>Description:</b> Code specifying the linear dimensional unit <b>All valid standard codes are used.</b>				

DMA14	65	<b>Height</b>	X	R	1/8	Used
		<b>Description:</b> Vertical dimension of an object measured when the object is in the upright position				
DMA15	188	<b>Weight Unit Code</b>	X	ID	1/1	Used
		<b>Description:</b> Code specifying the weight unit <b>All valid standard codes are used.</b>				
DMA16	81	<b>Weight</b>	X	R	1/10	Used
		<b>Description:</b> Numeric value of weight				
DMA17	352	<b>Description</b>	O	AN	1/80	Used
		<b>Description:</b> A free-form description to clarify the related data elements and their content				
DMA18	26	<b>Country Code</b>	O	ID	2/3	Used
		<b>Description:</b> 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 Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b>	M	ID	2/3	Must use
		<b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>				
REF02	127	<b>Reference Identification</b>	X	AN	1/80	Used
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
REF03	352	<b>Description</b>	X	AN	1/80	Used
		<b>Description:</b> A free-form description to clarify the related data elements and their content				
REF04	C040	<b>Reference Identifier</b>	O	Comp		Used
		<b>Description:</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier				
REF04-01	128	<b>Reference Identification Qualifier</b>	M	ID	2/3	Must use
		<b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>				
REF04-02	127	<b>Reference Identification</b>	M	AN	1/80	Must use
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
REF04-03	128	<b>Reference Identification Qualifier</b>	X	ID	2/3	Used
		<b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>				
REF04-04	127	<b>Reference Identification</b>	X	AN	1/80	Used
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
REF04-05	128	<b>Reference Identification Qualifier</b>	X	ID	2/3	Used
		<b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>				
REF04-06	127	<b>Reference Identification</b>	X	AN	1/80	Used
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

## 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.

# N3 Party Location

Pos: 0250	Max: 2
Heading - Optional	
Loop: NM1	Elements: 2

**User Option (Usage):** Used

**Purpose:** To specify the location of the named party

## Element Summary:

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

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

## 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:

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

# W1 Block Identification

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

**Description:** Identifier for a block of cars

# Loop Equipment Identification

Pos: 0400	Repeat: 800
Mandatory	
Loop: W2	Elements: N/A

**User Option (Usage):** Must use

**Purpose:** To identify equipment and the commodity being carried

## Loop Summary:

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
W201	206	<b>Equipment Initial</b>	M	AN	1/4	Must use
		<b>Description:</b> Prefix or alphabetic part of an equipment unit's identifying number				
W202	207	<b>Equipment Number</b>	M	AN	1/6	Must use
		<b>Description:</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)				
W203	22	<b>Commodity Code</b>	O	AN	1/30	Used
		<b>Description:</b> Code describing a commodity or group of commodities				
W204	40	<b>Equipment Description Code</b>	M	ID	2/2	Must use
		<b>Description:</b> Code identifying type of equipment used for shipment				
		<b><u>Code</u></b>		<b><u>Name</u></b>		
		CA		Caboose		
		CC		Container resting on a Chassis		
		CH		Chassis		
		CM		Container, Open-Sided		
		CN		Container		
		CX		Container, Tank		
		CZ		Refrigerated Container		
		ET		End of Train Device		
		GS		Generator Set		
		HT		Head of Train Device		
		ID		Idler Car		
		LO		Locomotive		
		LS		Half Height Flat Rack		
		OT		Open-top/flatbed trailer		
		PL		Container, Platform		
		PT		Protected Trailer		
		RR		Rail Car		
		SK		Stack Car		
		TL		Trailer (not otherwise specified)		
		TN		Tank Car		
W205	578	<b>Equipment Status Code</b>	M	ID	1/2	Must use
		<b>Description:</b> Code indicating status of equipment				
		<b><u>Code</u></b>		<b><u>Name</u></b>		
		D		Deadhead Locomotive or Caboose		
		E		Empty		
		L		Load		
		O		Operating Locomotive or Caboose		
		W		Revenue Empty		
		AL		Empty Non-hazardous Last Contained		
W206	577	<b>Net Tons</b>	O	N0	1/3	Used

		<b>Description:</b> Net weight in tons				
W207	177	<b>Intermodal Service Code</b>	O	ID	1/2	Used
		<b>Description:</b> Code identifying the Intermodal Service Plan				
W209	373	<b>Date</b>	X	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				
W210	502	<b>Type of Locomotive Maintenance Code</b>	X	AN	2/2	Used
		<b>Description:</b> Value defining locomotive maintenance schedule				
W211	206	<b>Equipment Initial</b>	X	AN	1/4	Used
		<b>Description:</b> Prefix or alphabetic part of an equipment unit's identifying number				
W212	207	<b>Equipment Number</b>	X	AN	1/6	Used
		<b>Description:</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)				
W213	761	<b>Equipment Number Check Digit</b>	O	N0	1/1	Used
		<b>Description:</b> Number which designates the check digit applied to a piece of equipment				
W214	219	<b>Position</b>	O	AN	1/3	Used
		<b>Description:</b> Relative position of shipment in car, trailer, or container (mutually defined)				
W215	301	<b>Car Type Code</b>	O	ID	1/4	Used
		<b>Description:</b> Code specifying type of rail car or intermodal equipment type and its general characteristics				
W217	1554	<b>Tag Status Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating the status of an Automatic Equipment Identification Tag				
		<b>Code</b>				
		<b>Name</b>				
		G				Good
		L				Left Tag Bad
		M				Equipment has Two Tags and the Equipment Initial and Number are not the Same
		N				No Tag Read
		R				Right Tag Bad
W218	1543	<b>Equipment Orientation Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating the direction the equipment is entrained or the lading is loaded; When used to indicate the lading orientation, direction is defined relative to the equipment on which it is loaded				
		<b>All valid standard codes are used.</b>				

### 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:

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

## 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IMA01	748	<b>Movement Authority Code</b>	M	ID	1/2	Must use

**Description:** Code indicating the interchange authority

<u>Code</u>	<u>Name</u>
A	Released From Bad Order
B	Bad Order Setback
C	Car Not Weighed
D	Empty Received as a Load
E	Embargoed Shipment
G	Refused by Customer - Unneeded
I	Interchanged in Error
L	Not in Compliance With Special Car Order 90 or Special Car Order 100 Empty
N	No Record Rights
O	Overweight Shipment
P	Intermediate Switch Carrier
R	Refused by Customer - Unfit
S	Car Applied to Shipper Car Order - Place for Loading
W	No Waybill
X	Association of American Railroads Restriction
DS	Destination Switch Move
HM	Haulage Movement
NC	No Clearance
NU	Not on Universal Machine Language Equipment Register
OA	Old Age (Over-age)
OS	Origin Switch Move
RB	RBOX or RGON Exception

IMA02	140	<b>Standard Carrier Alpha Code</b>	O	ID	2/4	Used
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**Description:** Standard Carrier Alpha Code

IMA03	257	<b>Tariff Application Code</b>	O	ID	1/1	Used
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**Description:** Code indicating to which traffic a tariff applies

<u>Code</u>	<u>Name</u>
D	Reciprocal
E	Intraterminal
F	Interterminal

IMA04	257	<b>Tariff Application Code</b>	O	ID	1/1	Used
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**Description:** Code indicating to which traffic a tariff applies

<u>Code</u>	<u>Name</u>
N	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 Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
W401	576	<b>Abbreviated Customer Name</b>	O	AN	2/12	Used
		<b>Description:</b> Customer name in abbreviated form				
W402	140	<b>Standard Carrier Alpha Code</b>	X	ID	2/4	Used
		<b>Description:</b> Standard Carrier Alpha Code				
W403	573	<b>Freight Station Accounting Code</b>	X	ID	1/5	Used
		<b>Description:</b> Code (Freight Station Accounting) (AAR Managed Code for Locations)				
W404	19	<b>City Name</b>	X	AN	2/19	Used
		<b>Description:</b> Free-form text for city name				
W405	156	<b>State or Province Code</b>	X	ID	2/2	Used
		<b>Description:</b> 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.

# W5 Carrier and Route Information

Pos: 0800	Max: 4
Heading - Optional	
Loop: W2	Elements: 6

**User Option (Usage):** Used

**Purpose:** To specify carrier and routing sequences and details

## Element Summary:

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

## Comments:

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

# W6 Special Handling Information

Pos: 0900	Max: 6
Heading - Optional	
Loop: W2	Elements: 4

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
W601	152	<b>Special Handling Code</b>	M	ID	2/3	Must use
		<b>Description:</b> Code specifying special transportation handling instructions <b>All valid standard codes are used.</b>				
W602	152	<b>Special Handling Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code specifying special transportation handling instructions <b>All valid standard codes are used.</b>				
W603	152	<b>Special Handling Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code specifying special transportation handling instructions <b>All valid standard codes are used.</b>				
W604	152	<b>Special Handling Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code specifying special transportation handling instructions <b>All valid standard codes are used.</b>				

# PS Protective Service Instructions

Pos: 1000	Max: 5
Heading - Optional	
Loop: W2	Elements: 13

**User Option (Usage):** Used

**Purpose:** To specify mechanical protective service and ventilation instructions

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PS01	746	<b>Protective Service Rule Code</b>	M	ID	3/9	Must use
		<b>Description:</b> Association of American Railroads (AAR) Protective Service that applies to shipment				
PS02	241	<b>Protective Service Code</b>	M	ID	1/4	Must use
		<b>Description:</b> Code specifying perishable protective service- rail carriers only				
		<u>Code</u>		<u>Name</u>		
		D		Discontinue Service		
		M		Standard Mechanical Protective Service		
		MN		Modified Mechanical Protective Service		
		HDN		Do Not Heat		
		HSC		Standard Heating In Canada		
		MNU		Do Not Operate		
		HDNC		Do Not Heat in Canada		
PS03	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<u>Code</u>		<u>Name</u>		
		CE		Centigrade, Celsius		
		FA		Fahrenheit		
PS04	408	<b>Temperature</b>	X	R	1/4	Used
		<b>Description:</b> Temperature				
PS05	140	<b>Standard Carrier Alpha Code</b>	O	ID	2/4	Used
		<b>Description:</b> Standard Carrier Alpha Code				
PS06	573	<b>Freight Station Accounting Code</b>	O	ID	1/5	Used
		<b>Description:</b> Code (Freight Station Accounting) (AAR Managed Code for Locations)				
PS07	19	<b>City Name</b>	O	AN	2/19	Used
		<b>Description:</b> Free-form text for city name				
PS08	156	<b>State or Province Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
PS10	745	<b>Pre-Cooled (Rule 710) Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating whether or not the shipment was precooled per Association of American Railroads Protective Service Rule 710 <b>All valid standard codes are used.</b>				
PS11	1073	<b>Yes/No Condition or Response Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating a Yes or No condition or response				
		<u>Code</u>		<u>Name</u>		

		N	No				
		Y	Yes				
PS12	1073	<b>Yes/No Condition or Response Code</b>		O	ID	1/1	Used
		<b>Description:</b> Code indicating a Yes or No condition or response					
		<u>Code</u>	<u>Name</u>				
		N	No				
		Y	Yes				
PS13	1073	<b>Yes/No Condition or Response Code</b>		O	ID	1/1	Used
		<b>Description:</b> Code indicating a Yes or No condition or response					
		<u>Code</u>	<u>Name</u>				
		N	No				
		Y	Yes				
PS14	408	<b>Temperature</b>		X	R	1/4	Used
		<b>Description:</b> Temperature					

### 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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

**Description:** Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
BC	Buyer's Contract Number
BL	Government Bill of Lading
BM	Bill of Lading Number
BN	Booking Number
CG	Consignee's Order Number
CO	Customer Order Number
CR	Customer Reference Number
CX	Consignment Classification ID
F9	Freight Payor Reference Number
OB	Ocean Bill of Lading
SC	Shipper Car Order Number
SI	Shipper's Identifying Number for Shipment (SID)
VI	Pool Number
ZE	Coal Authority Number
CUB	U.S. Customs Service (USCS) Bill of Lading Number

REF02	127	Reference Identification	X	AN	1/80	Used
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**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

REF03	352	Description	X	AN	1/80	Used
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**Description:** A free-form description to clarify the related data elements and 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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
1200	LS	Loop Header	O	1		Used
1300		Loop LH1	O		1000	Used
2100	LE	Loop Trailer	M	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>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LS01	447	Loop Identifier Code	M	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:

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

# LH1 Hazardous Identification 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>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LH101	355	<b>Unit or Basis for Measurement Code</b>	M	ID	2/2	Must use
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>				
LH102	80	<b>Lading Quantity</b>	M	NO	1/7	Must use
		<b>Description:</b> Number of units (pieces) of the lading commodity				
LH103	277	<b>UN/NA Identification Code</b>	O	ID	6/6	Used
		<b>Description:</b> 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				
LH104	200	<b>Hazardous Materials Page</b>	O	AN	1/6	Used
		<b>Description:</b> The United Nations page number as required for the international transport of hazardous materials				
LH105	22	<b>Commodity Code</b>	O	AN	1/30	Used
		<b>Description:</b> Code describing a commodity or group of commodities				
LH106	355	<b>Unit or Basis for Measurement Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>				
LH107	380	<b>Quantity</b>	O	R	1/15	Used
		<b>Description:</b> Numeric value of quantity				
LH108	595	<b>Compartment ID Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code identifying the compartment in a compartmentalized tank car <b>All valid standard codes are used.</b>				
LH109	665	<b>Residue Indicator Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded <b>All valid standard codes are used.</b>				
LH110	254	<b>Packing Group Code</b>	O	ID	1/3	Used
		<b>Description:</b> Code indicating degree of danger in terms of Roman number I, II or III				
LH111	1375	<b>Interim Hazardous Material Regulatory Number</b>	O	AN	1/5	Used
		<b>Description:</b> Identifies the current regulatory version number used for hazardous materials shipments				
LH112	1271	<b>Industry Code</b>	O	AN	1/30	Used
		<b>Description:</b> Code indicating a code from a specific 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 Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LH201	215	<b>Hazardous Classification</b>	O	ID	1/30	Used
		<b>Description:</b> The hazardous classification corresponding to the shipping name of the hazardous commodity				
LH202	983	<b>Hazardous Class Qualifier</b>	O	ID	1/1	Used
		<b>Description:</b> Code qualifying hazardous class <b>All valid standard codes are used.</b>				
LH203	218	<b>Hazardous Placard Notation</b>	O	ID	14/40	Used
		<b>Description:</b> The placard notation corresponding to the hazard class of the hazardous commodity				
LH204	222	<b>Hazardous Endorsement</b>	O	ID	4/25	Used
		<b>Description:</b> The placard endorsement that is to be shown on the shipping papers for the hazardous commodity				
LH205	759	<b>Reportable Quantity Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code to identify presence of hazardous substance <b>All valid standard codes are used.</b>				
LH206	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>				
LH207	408	<b>Temperature</b>	X	R	1/4	Used
		<b>Description:</b> Temperature				
LH208	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>				
LH209	408	<b>Temperature</b>	X	R	1/4	Used
		<b>Description:</b> Temperature				
LH210	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>				
LH211	408	<b>Temperature</b>	X	R	1/4	Used
		<b>Description:</b> Temperature				
LH212	188	<b>Weight Unit Code</b>	X	ID	1/1	Used
		<b>Description:</b> Code specifying the weight unit <b>All valid standard codes are used.</b>				

LH213	267	<b>Net Explosive Quantity</b>	X	N0	1/10	Used
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**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>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LH301	224	<b>Hazardous Material Shipping Name</b>	X	AN	1/25	Used
		<b>Description:</b> 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	<b>Hazardous Material Shipping Name Qualifier</b>	X	ID	1/1	Used
		<b>Description:</b> Qualifier indicating the source (regulatory) of the proper shipping name <b>All valid standard codes are used.</b>				
LH303	985	<b>N.O.S. Indicator Code</b>	O	ID	3/3	Used
		<b>Description:</b> Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified <b>All valid standard codes are used.</b>				
LH304	1073	<b>Yes/No Condition or Response Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating a Yes or No condition or response <b>All valid standard codes are used.</b>				

## 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LFH01	808	<b>Hazardous Material Shipment Information Qualifier</b>	M	ID	3/3	Must use
		<b>Description:</b> Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements <b>All valid standard codes are used.</b>				
LFH02	809	<b>Hazardous Material Shipment Information</b>	M	AN	1/25	Must use
		<b>Description:</b> Specific information required by law for hazardous material shipments				
LFH03	809	<b>Hazardous Material Shipment Information</b>	O	AN	1/25	Used
		<b>Description:</b> Specific information required by law for hazardous material shipments				
LFH04	1023	<b>Hazard Zone Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone <b>All valid standard codes are used.</b>				
LFH05	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>				
LFH06	380	<b>Quantity</b>	X	R	1/15	Used
		<b>Description:</b> Numeric value of quantity				
LFH07	380	<b>Quantity</b>	O	R	1/15	Used
		<b>Description:</b> Numeric value of quantity				
LFH08	373	<b>Date</b>	O	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				

## 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>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LEP01	806	<b>EPA Waste Stream Number Code</b>	O	ID	4/6	Used
		<b>Description:</b> Waste stream number applicable to the movement of hazardous waste as determined by government regulations				
LEP02	807	<b>Waste Characteristics Code</b>	O	ID	12/16	Used
		<b>Description:</b> Waste characteristics as defined by regulatory requirements				
LEP03	156	<b>State or Province Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
LEP04	127	<b>Reference Identification</b>	X	AN	1/80	Used
		<b>Description:</b> 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.

# LH4 Canadian Dangerous Requirements

Pos: 1800	Max: 4
Heading - Optional	
Loop: LH1	Elements: 12

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LH401	238	<b>Emergency Response Plan Number</b>	X	AN	1/12	Used
		<b>Description:</b> The identity number of a specific hazardous emergency response plan that is assigned by the Director General of Canada				
LH402	364	<b>Communication Number</b>	X	AN	1/256	Used
		<b>Description:</b> Complete communications number including country or area code when applicable				
LH403	254	<b>Packing Group Code</b>	O	ID	1/3	Used
		<b>Description:</b> Code indicating degree of danger in terms of Roman number I, II or III				
LH404	230	<b>Subsidiary Classification</b>	O	ID	1/3	Used
		<b>Description:</b> Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers				
LH405	230	<b>Subsidiary Classification</b>	O	ID	1/3	Used
		<b>Description:</b> 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	<b>Subsidiary Classification</b>	O	ID	1/3	Used
		<b>Description:</b> Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers				
LH407	271	<b>Subsidiary Risk Indicator</b>	O	ID	1/2	Used
		<b>Description:</b> Code identifying the type of subsidiary risk <b>All valid standard codes are used.</b>				
LH408	267	<b>Net Explosive Quantity</b>	X	N0	1/10	Used
		<b>Description:</b> Net weight of the explosive quantity of the hazardous commodity				
LH409	805	<b>Canadian Hazardous Notation</b>	O	AN	1/25	Used
		<b>Description:</b> Notation required by Canadian regulatory agencies				
LH410	986	<b>Special Commodity Indicator Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating 'Special Commodity' notation on operational waybill as identified by the Transportation of Dangerous Goods Act and Regulation (TDG) <b>All valid standard codes are used.</b>				
LH411	364	<b>Communication Number</b>	O	AN	1/256	Used
		<b>Description:</b> Complete communications number including country or area code when applicable				
LH412	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>				

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

# 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>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LHR01	128	Reference Identification Qualifier	M	ID	2/3	Must use
		<b>Description:</b> Code qualifying the Reference Identification All valid standard codes are used.				
LHR02	127	Reference Identification	M	AN	1/80	Must use
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
LHR03	373	Date	O	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				

# PER Administrative Communications Contact

Pos: 2050	Max: 5
Heading - Optional	
Loop: LH1	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>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	<b>Contact Function Code</b>	M	ID	2/2	Must use
		<b>Description:</b> Code identifying the major duty or responsibility of the person or group named <b>All valid standard codes are used.</b>				
PER02	93	<b>Name</b>	O	AN	1/60	Used
		<b>Description:</b> Free-form name				
PER03	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>				
PER04	364	<b>Communication Number</b>	X	AN	1/256	Used
		<b>Description:</b> Complete communications number including country or area code when applicable				
PER05	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>				
PER06	364	<b>Communication Number</b>	X	AN	1/256	Used
		<b>Description:</b> Complete communications number including country or area code when applicable				
PER07	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>				
PER08	364	<b>Communication Number</b>	X	AN	1/256	Used
		<b>Description:</b> Complete communications number including country or area code when applicable				
PER09	443	<b>Contact Inquiry Reference</b>	O	AN	1/20	Used
		<b>Description:</b> Additional reference number or description to clarify a contact number				

## 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

Pos: 2060	Repeat: 10
	Optional
Loop: N1	Elements: N/A

**User Option (Usage):** Used

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
2060	N1	Party Identification	O	1		Used
2070	N3	Party Location	O	2		Used
2080	N4	Geographic Location	O	1		Used
2090	PER	Administrative Communications Contact	O	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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Must use
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>				
N102	93	<b>Name</b>	X	AN	1/60	Used
		<b>Description:</b> Free-form name				
N103	66	<b>Identification Code Qualifier</b>	X	ID	1/2	Used
		<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <b>All valid standard codes are used.</b>				
N104	67	<b>Identification Code</b>	X	AN	2/80	Used
		<b>Description:</b> Code identifying a party or other code				
N105	706	<b>Entity Relationship Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code describing entity relationship <b>All valid standard codes are used.</b>				
N106	98	<b>Entity Identifier Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>				

## 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.

# N3 Party Location

Pos: 2070	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

**User Option (Usage):** Used

**Purpose:** To specify the location of the named party

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	<b>Address Information</b>	M	AN	1/55	Must use
		<b>Description:</b> Address information				
N302	166	<b>Address Information</b>	O	AN	1/55	Used
		<b>Description:</b> 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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b>	O	AN	2/30	Used
		<b>Description:</b> Free-form text for city name				
N402	156	<b>State or Province Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
N403	116	<b>Postal Code</b>	O	ID	3/15	Used
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	<b>Country Code</b>	X	ID	2/3	Used
		<b>Description:</b> Code identifying the country				
N405	309	<b>Location Qualifier</b>	X	ID	1/2	Used
		<b>Description:</b> Code identifying type of location <b>All valid standard codes are used.</b>				
N406	310	<b>Location Identifier</b>	O	AN	1/30	Used
		<b>Description:</b> Code which identifies a specific location				
N407	1715	<b>Country Subdivision Code</b>	X	ID	1/3	Used
		<b>Description:</b> Code identifying the country subdivision				

## 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

Pos: 2090	Max: 2
Heading - Optional	
Loop: N1	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>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	<b>Contact Function Code</b>	M	ID	2/2	Must use
		<b>Description:</b> Code identifying the major duty or responsibility of the person or group named <b>All valid standard codes are used.</b>				
PER02	93	<b>Name</b>	O	AN	1/60	Used
		<b>Description:</b> Free-form name				
PER03	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>				
PER04	364	<b>Communication Number</b>	X	AN	1/256	Used
		<b>Description:</b> Complete communications number including country or area code when applicable				
PER05	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>				
PER06	364	<b>Communication Number</b>	X	AN	1/256	Used
		<b>Description:</b> Complete communications number including country or area code when applicable				
PER07	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>				
PER08	364	<b>Communication Number</b>	X	AN	1/256	Used
		<b>Description:</b> Complete communications number including country or area code when applicable				
PER09	443	<b>Contact Inquiry Reference</b>	O	AN	1/20	Used
		<b>Description:</b> Additional reference number or description to clarify a contact number				

## 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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LE01	447	Loop Identifier Code	M	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>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	<b>Contact Function Code</b>	M	ID	2/2	Must use
		<b>Description:</b> Code identifying the major duty or responsibility of the person or group named <b>All valid standard codes are used.</b>				
PER02	93	<b>Name</b>	O	AN	1/60	Used
		<b>Description:</b> Free-form name				
PER03	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>				
PER04	364	<b>Communication Number</b>	X	AN	1/256	Used
		<b>Description:</b> Complete communications number including country or area code when applicable				
PER05	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>				
PER06	364	<b>Communication Number</b>	X	AN	1/256	Used
		<b>Description:</b> Complete communications number including country or area code when applicable				
PER07	365	<b>Communication Number Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>				
PER08	364	<b>Communication Number</b>	X	AN	1/256	Used
		<b>Description:</b> Complete communications number including country or area code when applicable				
PER09	443	<b>Contact Inquiry Reference</b>	O	AN	1/20	Used
		<b>Description:</b> Additional reference number or description to clarify a contact number				

## 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 Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LH201	215	<b>Hazardous Classification</b>	O	ID	1/30	Used
		<b>Description:</b> The hazardous classification corresponding to the shipping name of the hazardous commodity				
LH202	983	<b>Hazardous Class Qualifier</b>	O	ID	1/1	Used
		<b>Description:</b> Code qualifying hazardous class <b>All valid standard codes are used.</b>				
LH203	218	<b>Hazardous Placard Notation</b>	O	ID	14/40	Used
		<b>Description:</b> The placard notation corresponding to the hazard class of the hazardous commodity				
LH204	222	<b>Hazardous Endorsement</b>	O	ID	4/25	Used
		<b>Description:</b> The placard endorsement that is to be shown on the shipping papers for the hazardous commodity				
LH205	759	<b>Reportable Quantity Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code to identify presence of hazardous substance <b>All valid standard codes are used.</b>				
LH206	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>				
LH207	408	<b>Temperature</b>	X	R	1/4	Used
		<b>Description:</b> Temperature				
LH208	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>				
LH209	408	<b>Temperature</b>	X	R	1/4	Used
		<b>Description:</b> Temperature				
LH210	355	<b>Unit or Basis for Measurement Code</b>	X	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>				
LH211	408	<b>Temperature</b>	X	R	1/4	Used
		<b>Description:</b> Temperature				
LH212	188	<b>Weight Unit Code</b>	X	ID	1/1	Used
		<b>Description:</b> Code specifying the weight unit <b>All valid standard codes are used.</b>				

LH213	267	<b>Net Explosive Quantity</b>	X	N0	1/10	Used
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**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>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LHR01	128	Reference Identification Qualifier	M	ID	2/3	Must use
		<b>Description:</b> Code qualifying the Reference Identification All valid standard codes are used.				
LHR02	127	Reference Identification	M	AN	1/80	Must use
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
LHR03	373	Date	O	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year				

# 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>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	<b>Number of Included Segments</b>	M	NO	1/10	Must use
		<b>Description:</b> Total number of segments included in a transaction set including ST and SE segments				
SE02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Must use
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

## Comments:

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