

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

Monday – Friday: 7:00 AM – 6:00 PM

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| N4 | Geographic Location | |
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| PEF | | |
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| LHF | | |
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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 |
|-------|------|---------------|---|----|------|------|
|-------|------|---------------|---|----|------|------|

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.