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| PER | Administrative Communications Contact | 44 |
| 2200 | Loop Contact..... | Error! Bookmark not defined. |
| G61 | Contact | Error! Bookmark not defined. |
| L11 | Business Instructions and Reference Number..... | Error! Bookmark not defined. |
| LH6 | Hazardous Certification | Error! Bookmark not defined. |
| 2250 | Loop Hazardous Identification Information | Error! Bookmark not defined. |
| LH1 | Hazardous Identification Information | Error! Bookmark not defined. |
| LH2 | Hazardous Classification Information | Error! Bookmark not defined. |
| LH3 | Hazardous Material Shipping Name Information..... | Error! Bookmark not defined. |
| LFH | Free-form Hazardous Material Information..... | Error! Bookmark not defined. |
| LEP | EPA Required Data | Error! Bookmark not defined. |
| LH4 | Canadian Dangerous Requirements | Error! Bookmark not defined. |
| LHT | Transborder Hazardous Requirements | Error! Bookmark not defined. |
| 2300 | Loop Transaction Set Line Number | 47 |
| LX | Transaction Set Line Number | 48 |
| LCT | Logistics Container Tracking Information | 49 |
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| CUR | Currency | 57 |
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| 2350 | Loop Contact..... | Error! Bookmark not defined. |
| G61 | Contact | Error! Bookmark not defined. |
| L11 | Business Instructions and Reference Number..... | Error! Bookmark not defined. |
| LH6 | Hazardous Certification | Error! Bookmark not defined. |
| 2355 | Loop Hazardous Identification Information | Error! Bookmark not defined. |
| LH1 | Hazardous Identification Information | Error! Bookmark not defined. |
| LH2 | Hazardous Classification Information | Error! Bookmark not defined. |
| LH3 | Hazardous Material Shipping Name Information..... | Error! Bookmark not defined. |
| LFH | Free-form Hazardous Material Information..... | Error! Bookmark not defined. |
| LEP | EPA Required Data | Error! Bookmark not defined. |

| | | |
|------|---|------------------------------|
| LH4 | Canadian Dangerous Requirements | Error! Bookmark not defined. |
| LHT | Transborder Hazardous Requirements | Error! Bookmark not defined. |
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| LAD | Lading Detail | 62 |
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| AT5 | Bill of Lading Handling Requirements | 72 |
| AMT | Monetary Amount Information..... | 73 |
| CUR | Currency | 74 |
| L11 | Business Instructions and Reference Number..... | 77 |
| PER | Administrative Communications Contact | Error! Bookmark not defined. |
| 2375 | Loop Contact..... | 79 |
| G61 | Contact | 80 |
| L11 | Business Instructions and Reference Number..... | 81 |
| LH6 | Hazardous Certification | 82 |
| 2378 | Loop Hazardous Identification Information | 83 |
| LH1 | Hazardous Identification Information | 84 |
| LH2 | Hazardous Classification Information | 87 |
| LH3 | Hazardous Material Shipping Name Information..... | 89 |
| LFH | Free-form Hazardous Material Information..... | 90 |
| LEP | EPA Required Data | Error! Bookmark not defined. |
| LH4 | Canadian Dangerous Requirements | Error! Bookmark not defined. |
| LHT | Transborder Hazardous Requirements | Error! Bookmark not defined. |
| L3 | Total Weight and Charges..... | 92 |
| SE | Transaction Set Trailer | 94 |
| GE | Functional Group Trailer..... | 95 |
| IEA | Interchange Control Trailer | 96 |

219

Logistics Service Request

Functional Group=AB

Purpose: This X12 Transaction Set contains the format and establishes the data contents of the Logistics Service Request Transaction Set (219) for use within the context of an Electronic Data Interchange (EDI) environment. This set can be used by a shipper to transmit data to a logistics related organization to provide order detail relevant to upcoming transportation requirements.

Not Defined:

| <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> |
|------------|-----------|----------------------------|------------|----------------|---------------|--------------|--------------|
| | ISA | Interchange Control Header | M | 1 | | | Must use |
| | GS | Functional Group Header | M | 1 | | | Must use |

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 | B9 | Beginning Segment for Logistics Services | M | 1 | | | Must use |
| 0300 | B9A | Service Request | M | 7 | | | Must use |
| 0350 | AT5 | Bill of Lading Handling Requirements | O | 6 | | | Used |
| 0400 | L11 | Business Instructions and Reference Number | O | >1 | | | Used |
| 0500 | MS3 | Interline Information | O | 99 | | | Used |
| 0600 | ITA | Allowance, Charge or Service | O | 20 | | | Future |
| 0700 | NTE | Note/Special Instruction | O | 10 | | | Unused |
| LOOP ID - 1000 | | | | | 99 | | |
| 0800 | N7 | Equipment Details | O | 1 | | | Used |
| 0900 | N7A | Accessorial Equipment Details | O | 1 | | | Future |
| 1000 | N7B | Additional Equipment Details | O | 1 | | | Future |
| 1100 | MEA | Measurements | O | 1 | | | Used |

Detail:

| <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> |
|-----------------------|-----------|--|------------|----------------|---------------|-----------------|--------------|
| LOOP ID - 2000 | | | | | 99 | N2/0100L | |
| 0100 | S5 | Stop-off Details | O | 1 | | N2/0100 | Used |
| 0200 | G62 | Date/Time | O | 3 | | | Used |
| 0300 | L11 | Business Instructions and Reference Number | O | >1 | | | Used |
| 0400 | ITA | Allowance, Charge or Service | O | 20 | | | Future |
| LOOP ID - 2100 | | | | | 1 | | |
| 0500 | N1 | Party Identification | O | 1 | | | Used |
| 0600 | N2 | Additional Name Information | O | 1 | | | Used |
| 0700 | N3 | Party Location | O | 2 | | | Used |
| 0800 | N4 | Geographic Location | O | 1 | | | Used |
| 0900 | PER | Administrative Communications Contact | O | 3 | | | Used |

| <u>LOOP ID - 2200</u> | | | | | <u>99</u> | <u>N2/1000L</u> | |
|-----------------------|-----|--|---|----|--------------|-----------------|--------|
| 1000 | G61 | Contact | O | 1 | | N2/1000 | Unused |
| 1100 | L11 | Business Instructions and Reference Number | O | 10 | | | Unused |
| 1200 | LH6 | Hazardous Certification | O | 10 | | | Unused |
| <u>LOOP ID - 2250</u> | | | | | <u>25</u> | | |
| 1300 | LH1 | Hazardous Identification Information | O | 1 | | | Unused |
| 1400 | LH2 | Hazardous Classification Information | O | 5 | | | Unused |
| 1500 | LH3 | Hazardous Material Shipping Name Information | O | 6 | | | Unused |
| 1600 | LFH | Free-form Hazardous Material Information | O | 20 | | | Unused |
| 1700 | LEP | EPA Required Data | O | 3 | | | Unused |
| 1800 | LH4 | Canadian Dangerous Requirements | O | 1 | | | Unused |
| 1900 | LHT | Transborder Hazardous Requirements | O | 3 | | | Unused |
| <u>LOOP ID - 2300</u> | | | | | <u>>1</u> | <u>N2/2000L</u> | |
| 2000 | LX | Transaction Set Line Number | O | 1 | | N2/2000 | Used |
| 2100 | LCT | Logistics Container Tracking Information | O | 1 | | | Used |
| 2200 | MAN | Marks and Numbers Information | O | 10 | | | Used |
| 2300 | AT5 | Bill of Lading Handling Requirements | O | 6 | | | Future |
| 2400 | AMT | Monetary Amount Information | O | 1 | | | Future |
| 2500 | CUR | Currency | O | 1 | | | Future |
| 2600 | L11 | Business Instructions and Reference Number | O | >1 | | | Future |
| <u>LOOP ID - 2350</u> | | | | | <u>99</u> | <u>N2/2700L</u> | |
| 2700 | G61 | Contact | O | 1 | | N2/2700 | Unused |
| 2800 | L11 | Business Instructions and Reference Number | O | 5 | | | Unused |
| 2900 | LH6 | Hazardous Certification | O | 6 | | | Unused |
| <u>LOOP ID - 2355</u> | | | | | <u>25</u> | | |
| 3000 | LH1 | Hazardous Identification Information | O | 1 | | | Unused |
| 3100 | LH2 | Hazardous Classification Information | O | 4 | | | Unused |
| 3200 | LH3 | Hazardous Material Shipping Name Information | O | 10 | | | Unused |
| 3300 | LFH | Free-form Hazardous Material Information | O | 20 | | | Unused |
| 3400 | LEP | EPA Required Data | O | 3 | | | Unused |
| 3500 | LH4 | Canadian Dangerous Requirements | O | 1 | | | Unused |
| 3600 | LHT | Transborder Hazardous Requirements | O | 3 | | | Unused |
| <u>LOOP ID - 2370</u> | | | | | <u>>1</u> | <u>N2/3700L</u> | |
| 3700 | LAD | Lading Detail | O | 1 | | N2/3700 | Used |
| 3800 | PO4 | Item Physical Details | O | 1 | | | Used |

| | | | | | | |
|-----------------------|-----|--|---|-----------|-----------------|--------|
| 3900 | G69 | Line Item Detail - Description | O | 99 | | Used |
| 4000 | AT5 | Bill of Lading Handling Requirements | O | 6 | | Used |
| 4100 | AMT | Monetary Amount Information | O | 1 | | Future |
| 4200 | CUR | Currency | O | 1 | | Future |
| 4300 | L11 | Business Instructions and Reference Number | O | >1 | | Used |
| 4400 | PER | Administrative Communications Contact | O | 1 | | Unused |
| LOOP ID - 2375 | | | | 99 | N2/4500L | |
| 4500 | G61 | Contact | O | 1 | N2/4500 | Used |
| 4600 | L11 | Business Instructions and Reference Number | O | 5 | | Future |
| 4700 | LH6 | Hazardous Certification | O | 6 | | Future |
| LOOP ID - 2378 | | | | 25 | | |
| 4800 | LH1 | Hazardous Identification Information | O | 1 | | Used |
| 4900 | LH2 | Hazardous Classification Information | O | 4 | | Used |
| 5000 | LH3 | Hazardous Material Shipping Name Information | O | 10 | | Used |
| 5100 | LFH | Free-form Hazardous Material Information | O | 20 | | Used |
| 5200 | LEP | EPA Required Data | O | 3 | | Unused |
| 5300 | LH4 | Canadian Dangerous Requirements | O | 1 | | Unused |
| 5400 | LHT | Transborder Hazardous Requirements | O | 3 | | Unused |

Summary:

| <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 | L3 | Total Weight and Charges | M | 1 | | | Must use |
| 0200 | SE | Transaction Set Trailer | M | 1 | | | Must use |

Not Defined:

| <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> |
|------------|-----------|-----------------------------|------------|----------------|---------------|--------------|--------------|
| | GE | Functional Group Trailer | M | 1 | | | Must use |
| | IEA | Interchange Control Trailer | M | 1 | | | Must use |

Notes:

- 2/0100L The 2000 Loop defines pickup or delivery information for an order.
2/0100 The 2000 Loop defines pickup or delivery information for an order.
2/1000L The 2200 Loop provides hazardous information associated with an order or stop-off.
2/1000 The 2200 Loop provides hazardous information associated with an order or stop-off.
2/2000L The 2300 Loop provides details for tracking containers within an order.
2/2000 The 2300 Loop provides details for tracking containers within an order.
2/2700L The 2350 Loop provides hazardous information associated with container information.
2/2700 The 2350 Loop provides hazardous information associated with container information.
2/3700L The 2370 Loop provides item details.
2/3700 The 2370 Loop provides item details.
2/4500L The 2375 Loop provides hazardous information associated with item information.
2/4500 The 2375 Loop provides hazardous information associated with item information.

ISA Interchange Control Header

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

User Option (Usage): Must use

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control 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> |
|------------|-----------|-------------------------------------|------------|-------------|----------------|--------------|
| ISA01 | I01 | Authorization Information Qualifier | M | ID | 2/2 | Must use |

Description: Code identifying the type of information in the Authorization Information

| Code | Description | Usage | Format |
|------|----------------|-------|--------|
| 00 | Not applicable | | |
| | | | |

| | | | | | | |
|-------|-----|---------------------------|---|----|-------|----------|
| ISA02 | I02 | Authorization Information | M | AN | 10/10 | Must use |
|-------|-----|---------------------------|---|----|-------|----------|

Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)

| |
|-----------------------|
| No meaningful content |
|-----------------------|

| | | | | | | |
|-------|-----|--------------------------------|---|----|-----|----------|
| ISA03 | I03 | Security Information Qualifier | M | ID | 2/2 | Must use |
|-------|-----|--------------------------------|---|----|-----|----------|

Description: Code identifying the type of information in the Security Information

| Code | Description | Usage | Format |
|------|----------------|-------|--------|
| 00 | Not applicable | | |
| | | | |

| | | | | | | |
|-------|-----|----------------------|---|----|-------|----------|
| ISA04 | I04 | Security Information | M | AN | 10/10 | Must use |
|-------|-----|----------------------|---|----|-------|----------|

Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)

| |
|-----------------------|
| No meaningful content |
|-----------------------|

| | | | | | | |
|-------|-----|--------------------------|---|----|-----|----------|
| ISA05 | I05 | Interchange ID Qualifier | M | ID | 2/2 | Must use |
|-------|-----|--------------------------|---|----|-----|----------|

Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified

| Code | Description | Usage | Format |
|------|-----------------------------|-------|--------|
| 01 | DUNS (Dun and Bradstreet) | | 09N |
| 16 | DUNS+4 (Dun and Bradstreet) | | 13A |
| 32 | EIN (US) | | 10A |
| | | | |

| | | | | | | |
|-------|-----|-----------------------|---|----|-------|----------|
| ISA06 | I06 | Interchange Sender ID | M | AN | 15/15 | Must use |
|-------|-----|-----------------------|---|----|-------|----------|

Description: Identification code published by the sender for other parties to use as the

receiver ID to route data to them; the sender always codes this value in the sender ID element

ISA07 I05 **Interchange ID Qualifier** M ID 2/2 Must use
Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified

| Code | Description | Usage | Format |
|------|-----------------------------|-------|--------|
| 01 | DUNS (Dun and Bradstreet) | | 09N |
| 16 | DUNS+4 (Dun and Bradstreet) | | 13A |
| 32 | EIN (US) | | 10A |
| | | | |

ISA08 I07 **Interchange Receiver ID** M AN 15/15 Must use
Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them

ISA09 I08 **Interchange Date** M DT 6/6 Must use
Description: Date of the interchange

ISA10 I09 **Interchange Time** M TM 4/4 Must use
Description: Time of the interchange

ISA11 I65 **Repetition Separator** M 1/1 Must use
Description: Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |
| | | | |
| | | | |

ISA12 I11 **Interchange Control Version Number** M ID 5/5 Must use
Description: Code specifying the version number of the interchange control segments

| Code | Description | Usage | Format |
|-------|----------------------|-------|--------|
| 00503 | ASC X12 October 2005 | | |
| | | | |

ISA13 I12 **Interchange Control Number** M N0 9/9 Must use
Description: A control number assigned by the interchange sender

ISA14 I13 **Acknowledgment Requested** M ID 1/1 Must use
Description: Code indicating sender's request for an interchange acknowledgment

| Code | Description | Usage | Format |
|------|----------------------|-------|--------|
| 0 | No acknowledgement | | |
| 1 | Send acknowledgement | | |
| | | | |

ISA15 I14 **Interchange Usage Indicator** M ID 1/1 Must use

Description: Code indicating whether data enclosed by this interchange envelope is test, production or information

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |
| P | Production | | |
| T | Test | | |
| | | | |

ISA16 I15 **Component Element Separator** M 1/1 Must use

Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |
| | | | |
| | | | |

GS Functional Group Header

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

User Option (Usage): Must use

Purpose: To indicate the beginning of a functional group and to provide control 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> |
|------------|-----------|----------------------------|------------|-------------|----------------|--------------|
| GS01 | 479 | Functional Identifier Code | M | ID | 2/2 | Must use |

Description: Code identifying a group of application related transaction sets

| Code | Description | Usage | Format |
|------|----------------------------|-------|--------|
| AB | Logistics Services Request | | |

| | | | | | | |
|------|-----|---------------------------|---|----|------|----------|
| GS02 | 142 | Application Sender's Code | M | AN | 2/15 | Must use |
|------|-----|---------------------------|---|----|------|----------|

Description: Code identifying party sending transmission; codes agreed to by trading partners

| | | | | | | |
|------|-----|-----------------------------|---|----|------|----------|
| GS03 | 124 | Application Receiver's Code | M | AN | 2/15 | Must use |
|------|-----|-----------------------------|---|----|------|----------|

Description: Code identifying party receiving transmission; codes agreed to by trading partners

| | | | | | | |
|------|-----|------|---|----|-----|----------|
| GS04 | 373 | Date | M | DT | 8/8 | Must use |
|------|-----|------|---|----|-----|----------|

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

| | | | | | | |
|------|-----|------|---|----|-----|----------|
| GS05 | 337 | Time | M | TM | 4/8 | 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)

| | | | | | | |
|------|----|----------------------|---|----|-----|----------|
| GS06 | 28 | Group Control Number | M | N0 | 1/9 | Must use |
|------|----|----------------------|---|----|-----|----------|

Description: Assigned number originated and maintained by the sender

| | | | | | | |
|------|-----|-------------------------|---|----|-----|----------|
| GS07 | 455 | Responsible Agency Code | M | ID | 1/2 | Must use |
|------|-----|-------------------------|---|----|-----|----------|

Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| X | ASC X12 | | |

| | | | | | | |
|------|-----|--|---|----|------|----------|
| GS08 | 480 | Version / Release / Industry Identifier Code | M | AN | 1/12 | Must use |
|------|-----|--|---|----|------|----------|

Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

| Code | Description | Usage | Format |
|--------|----------------------|-------|--------|
| | | | |
| 005030 | ASC X12 October 2005 | | |
| | | | |

Semantics:

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

Comments:

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

ST Transaction Set Header

| | |
|---------------------|-------------|
| Pos: 0100 | Max: 1 |
| Heading - Mandatory | |
| Loop: N/A | Elements: 3 |

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 | Transaction Set Identifier Code | M | ID | 3/3 | Must use |

Description: Code uniquely identifying a Transaction Set

| Code | Description | Usage | Format |
|------|----------------------------|-------|--------|
| 219 | Logistics Services Request | | |
| | | | |

| | | | | | | |
|------|-----|--------------------------------|---|----|-----|----------|
| ST02 | 329 | Transaction Set Control Number | M | AN | 4/9 | Must use |
|------|-----|--------------------------------|---|----|-----|----------|

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

| | | | | | | |
|------|------|-------------------------------------|---|----|------|--------|
| ST03 | 1705 | Implementation Convention Reference | O | AN | 1/35 | Unused |
|------|------|-------------------------------------|---|----|------|--------|

Description: Reference assigned to identify Implementation Convention

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.

B9 Beginning Segment for Logistics Services

| | |
|---------------------|-------------|
| Pos: 0200 | Max: 1 |
| Heading - Mandatory | |
| Loop: N/A | Elements: 3 |

User Option (Usage): Must use

Purpose: To indicate the beginning of a logistics service transaction set

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|-----|--------------------------|-----|------|---------|----------|
| B901 | 127 | Reference Identification | M | AN | 1/80 | Must use |

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

| | | | | | | |
|------|-----|------------------------------|---|----|-----|----------|
| B902 | 353 | Transaction Set Purpose Code | M | ID | 2/2 | Must use |
|------|-----|------------------------------|---|----|-----|----------|

Description: Code identifying purpose of transaction set

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| 00 | Create | | |
| 04 | Change | | |
| 01 | Cancel | | |
| | | | |

| | | | | | | |
|------|-----|----------------------------|---|----|-----|------|
| B903 | 146 | Shipment Method of Payment | O | ID | 2/2 | Used |
|------|-----|----------------------------|---|----|-----|------|

Description: Code identifying payment terms for transportation charges

| Code | Description | Usage | Format |
|------|---|-------|--------|
| PP | Prepaid by seller/shipper | | |
| PC | Prepaid by seller/shipper but billed to buyer/consignee | | |
| CC | Collect from buyer/consignee | | |
| TP | Paid by third party freight payment service | | |
| | | | |

Semantics:

1. B901 is the logistics identification number.

B9A Service Request

| | |
|---------------------|-------------|
| Pos: 0300 | Max: 7 |
| Heading - Mandatory | |
| Loop: N/A | Elements: 1 |

User Option (Usage): Must use

Purpose: To identify the specified logistics services requested

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> |
|------------|-----------|----------------------|------------|-------------|----------------|--------------|
| B9A01 | 1644 | Service Request Code | M | ID | 2/2 | Must use |

Description: Code indicating the type of logistics service requested

| Code | Description | Usage | Format |
|------|---------------------|-------|--------|
| CS | Carrier Selection | | |
| CT | Contracted Services | | |
| FP | Freight Payment | | |
| RE | Rate Estimate | | |
| ST | Secure Transport | | |
| | | | |

AT5 Bill of Lading Handling Requirements

| | |
|--------------------|-------------|
| Pos: 0350 | Max: 6 |
| Heading - Optional | |
| Loop: N/A | Elements: 6 |

User Option (Usage): Used

Purpose: To identify Bill of Lading handling and service requirements

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|-----------------------|-----|------|---------|-------|
| AT501 | 152 | Special Handling Code | X | ID | 2/3 | Used |

Description: Code specifying special transportation handling instructions

| Code | Description | Usage | Format |
|------|----------------------------|-------|--------|
| RO | Rush (Greater urgency) | | |
| EP | Expedited (Lesser urgency) | | |
| XP | Export Shipment | | |
| IP | Import Shipment | | |
| HM | Hazardous Material | | |

02/18/2010 – Corrected Expedited code value from EX to EP

| | | | | | | |
|-------|-----|-----------------------|---|----|------|--------|
| AT502 | 560 | Special Services Code | X | ID | 2/10 | Future |
|-------|-----|-----------------------|---|----|------|--------|

Description: Code identifying the special service
All valid standard codes are used. (Total Codes: 172)

| | | | | | | |
|-------|-----|------------------------------|---|----|------|--------|
| AT503 | 153 | Special Handling Description | X | AN | 2/30 | Future |
|-------|-----|------------------------------|---|----|------|--------|

Description: Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate

| | | | | | | |
|-------|-----|------------------------------------|---|----|-----|--------|
| AT504 | 355 | Unit or Basis for Measurement Code | X | ID | 2/2 | Unused |
|-------|-----|------------------------------------|---|----|-----|--------|

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. (Total Codes: 884)

| | | | | | | |
|-------|-----|-------------|---|---|-----|--------|
| AT505 | 408 | Temperature | X | R | 1/4 | Unused |
|-------|-----|-------------|---|---|-----|--------|

Description: Temperature

| | | | | | | |
|-------|-----|-------------|---|---|-----|--------|
| AT506 | 408 | Temperature | X | R | 1/4 | Unused |
|-------|-----|-------------|---|---|-----|--------|

Description: Temperature

Syntax Rules:

1. E0103 - Only one of AT501 or AT503 may be present.
2. E0203 - Only one of AT502 or AT503 may be present.
3. L040506 - If AT504 is present, then at least one of AT505 or AT506 is required.
4. C0504 - If AT505 is present, then AT504 is required.
5. C0604 - If AT506 is present, then AT504 is required.

Semantics:

1. AT505 is the minimum temperature.
2. AT506 is the maximum temperature.

L11 Business Instructions and Reference Number

Pos: 0400 Max: >1
 Heading - Optional
 Loop: N/A Elements: 5

User Option (Usage): Used

Purpose: To specify instructions in this business relationship or a reference number

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|--------------------------|-----|------|---------|-------|
| L1101 | 127 | Reference Identification | X | AN | 1/80 | Used |

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

| | | | | | | |
|-------|-----|------------------------------------|---|----|-----|------|
| L1102 | 128 | Reference Identification Qualifier | X | ID | 2/3 | Used |
|-------|-----|------------------------------------|---|----|-----|------|

Description: Code qualifying the Reference Identification

| Code | Description | Usage | Format |
|------|--|-------|--------|
| MB | Master Bill of Lading Number Air mode – Air Waybill (AWB) or Master Air Waybill (MAWB) FTL mode – Master Bill of Lading or Manifest Ocean mode – Ocean Bill of Lading | | |
| CN | Carrier Shipment (Pro) Number | | |
| SN | Trailer or Container Seal Number | | |
| SI | Consolidated Shipment Number | | |
| BN | Shipment Booking | | |
| WU | Vessel Number | | |
| V3 | Voyage Number | | |
| ABS | Vessel Name | | |
| 2U | Freight Invoice Payor Identifier | | |
| TC | Freight Terms (Incoterms) | | |
| | | | |

| | | | | | | |
|-------|-----|-------------|---|----|------|--------|
| L1103 | 352 | Description | X | AN | 1/80 | Future |
|-------|-----|-------------|---|----|------|--------|

Description: A free-form description to clarify the related data elements and their content

| | | | | | | |
|-------|-----|------|---|----|-----|--------|
| L1104 | 373 | Date | O | DT | 8/8 | Future |
|-------|-----|------|---|----|-----|--------|

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

| | | | | | | |
|-------|------|-----------------------------------|---|----|-----|--------|
| L1105 | 1073 | Yes/No Condition or Response Code | O | ID | 1/1 | Future |
|-------|------|-----------------------------------|---|----|-----|--------|

Description: Code indicating a Yes or No condition or response
All valid standard codes are used. (Total Codes: 4)

Syntax Rules:

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

Semantics:

1. L1104 contains data relating to the qualifier cited in L1102.
2. L1105 indicates if the reference numbers included in this transmission were transmitted to the carrier in electronic format or key entered by the carrier. A "Y" indicates the carrier utilized the electronic shipper supplied reference information to create this document. A "N" indicates the carrier key entered the reference

information from a shipper supplied document.

MS3 Interline Information

| | |
|--------------------|-------------|
| Pos: 0500 | Max: 99 |
| Heading - Optional | |
| Loop: N/A | Elements: 5 |

User Option (Usage): Used

Purpose: To identify the interline carrier and relevant data

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> |
|------------|-----------|-----------------------------|------------|-------------|----------------|--------------|
| MS301 | 140 | Standard Carrier Alpha Code | M | ID | 2/4 | Must use |

Description: Standard Carrier Alpha Code

| |
|--|
| Explicit routing – provide freight carrier code |
| Implicit routing – provide Menlo carrier code (MLOG) |

| | | | | | | |
|-------|-----|-----------------------|---|----|-----|----------|
| MS302 | 133 | Routing Sequence Code | M | ID | 1/2 | Must use |
|-------|-----|-----------------------|---|----|-----|----------|

Description: Code describing the relationship of a carrier to a specific shipment movement

| Code | Description | Usage | Format |
|------|--|-------|--------|
| B | Origin carrier | | |
| 1 | 1 st carrier after origin carrier | | |
| 2 | 2 nd carrier after origin carrier | | |
| 3 | 3 rd carrier after origin carrier | | |
| 4 | 4 th carrier after origin carrier | | |
| 5 | 5 th carrier after origin carrier | | |
| 6 | 6 th carrier after origin carrier | | |
| 7 | 7 th carrier after origin carrier | | |
| 8 | 8 th carrier after origin carrier | | |
| 9 | 9 th carrier after origin carrier | | |
| | | | |

| | | | | | | |
|-------|----|-----------|---|----|------|--------|
| MS303 | 19 | City Name | X | AN | 2/30 | Unused |
|-------|----|-----------|---|----|------|--------|

Description: Free-form text for city name

| | | | | | | |
|-------|----|---------------------------------|---|----|-----|------|
| MS304 | 91 | Transportation Method/Type Code | O | ID | 1/2 | Used |
|-------|----|---------------------------------|---|----|-----|------|

Description: Code specifying the method or type of transportation for the shipment

| Code | Meaning |
|------|---------------------------|
| | |
| LT | LTL (Less Than Truckload) |
| J | FTL (Full Truckload) |
| X | Intermodal |
| R | Rail |
| B | Barge |
| U | Parcel Ground |
| AP | Parcel Air |
| AE | Air Freight |
| S | Ocean Freight |
| FA | Freight Forwarder |
| H | Customer Pickup |
| | |

| | | | | | | |
|-------|-----|------------------------|---|----|-----|--------|
| MS305 | 156 | State or Province Code | O | ID | 2/2 | Unused |
|-------|-----|------------------------|---|----|-----|--------|

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

Syntax Rules:

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

Semantics:

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

ITA Allowance, Charge or Service

| | |
|--------------------|--------------|
| Pos: 0600 | Max: 20 |
| Heading - Optional | |
| Loop: N/A | Elements: 17 |

User Option (Usage): Future

Purpose: To specify allowances, charges, or services

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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| ITA01 | 248 | Allowance or Charge Indicator | M | ID | 1/1 | Must use |
| | | Description: Code which indicates an allowance or charge for the service specified All valid standard codes are used. (Total Codes: 7) | | | | |
| ITA02 | 559 | Agency Qualifier Code | X | ID | 2/2 | Used |
| | | Description: Code identifying the agency assigning the code values All valid standard codes are used. (Total Codes: 195) | | | | |
| ITA03 | 560 | Special Services Code | X | ID | 2/10 | Used |
| | | Description: Code identifying the special service All valid standard codes are used. (Total Codes: 172) | | | | |
| ITA04 | 331 | Allowance or Charge Method of Handling Code | M | ID | 2/2 | Must use |
| | | Description: Code indicating method of handling for an allowance or charge All valid standard codes are used. (Total Codes: 22) | | | | |
| ITA05 | 341 | Allowance or Charge Number | O | AN | 1/16 | Used |
| | | Description: The number assigned by a vendor referencing an allowance, promotion, deal or charge | | | | |
| ITA06 | 359 | Allowance or Charge Rate | O | R | 1/15 | Used |
| | | Description: Allowance or Charge Rate per Unit | | | | |
| ITA07 | 360 | Allowance or Charge Total Amount | O | N2 | 1/15 | Used |
| | | Description: Total dollar amount for the allowance or charge | | | | |
| ITA08 | 378 | Allowance/Charge Percent Qualifier | O | ID | 1/1 | Used |
| | | Description: Code indicating on what basis allowance or charge percent is calculated All valid standard codes are used. (Total Codes: 16) | | | | |
| ITA09 | 332 | Percent, Decimal Format | X | R | 1/6 | Used |
| | | Description: Percent given in decimal format (e.g., 0.0 through 100.0 represents 0% through 100%) | | | | |
| ITA10 | 380 | Quantity | X | R | 1/15 | Used |
| | | Description: Numeric value of quantity | | | | |
| ITA11 | 355 | Unit or Basis for Measurement Code | X | 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 All valid standard codes are used. (Total Codes: 884) | | | | |
| ITA12 | 380 | Quantity | X | R | 1/15 | Used |
| | | Description: Numeric value of quantity | | | | |
| ITA13 | 352 | Description | X | AN | 1/80 | Used |
| | | Description: A free-form description to clarify the related data elements and their content | | | | |

| | | | | | | |
|--|-----|---|---|----|------|------|
| ITA14 | 150 | Special Charge or Allowance Code | X | ID | 3/3 | Used |
| Description: Code identifying type of special charge or allowance All valid standard codes are used. (Total Codes: 1114) | | | | | | |
| ITA15 | 822 | Source Subqualifier | O | AN | 1/15 | Used |
| Description: A reference that indicates the table or text maintained by the Source Qualifier | | | | | | |
| ITA16 | 662 | Relationship Code | O | ID | 1/1 | Used |
| Description: Code indicating the relationship between entities All valid standard codes are used. (Total Codes: 5) | | | | | | |
| ITA17 | 355 | Unit or Basis for Measurement Code | O | 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 All valid standard codes are used. (Total Codes: 884) | | | | | | |

Syntax Rules:

1. L02031314 - If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.
2. C0809 - If ITA08 is present, then ITA09 is required.
3. P1011 - If either ITA10 or ITA11 is present, then the other is required.
4. C1502 - If ITA15 is present, then ITA02 is required.
5. C1712 - If ITA17 is present, then ITA12 is required.

Semantics:

1. ITA09 is the allowance or charge percent.
2. ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
3. ITA12 is the quantity of free goods.

Comments:

1. If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.
2. ITA02 identifies the source of the code value in ITA03 or ITA15.
3. If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
4. ITA13 is used to clarify the allowance, charge, or service.
5. ITA15 specifies the individual code list of the agency specified in ITA02.
6. ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

Loop Equipment Details

| | |
|------------|---------------|
| Pos: 0800 | Repeat: 99 |
| Optional | |
| Loop: 1000 | Elements: N/A |

User Option (Usage): Used

Purpose: To identify the equipment

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Reg</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|-------------------------------|------------|----------------|---------------|---------------|
| 0800 | N7 | Equipment Details | O | 1 | | Used |
| 0900 | N7A | Accessorial Equipment Details | O | 1 | | Future |
| 1000 | N7B | Additional Equipment Details | O | 1 | | Future |
| 1100 | MEA | Measurements | O | 1 | | Used |

N7 Equipment Details

| | |
|---------------------------|---------------------|
| Pos: 0800 | Max: 1 |
| Heading - Optional | |
| Loop: 1000 | Elements: 24 |

User Option (Usage): Used

Purpose: To identify the equipment

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> |
|------------|-----------|---------------------|------------|-------------|----------------|--------------|
| N701 | 206 | Equipment Initial | O | AN | 1/4 | Used |

Description: Prefix or alphabetic part of an equipment unit's identifying number

Equipment initial is not used for Unit Load Device (ULD) equipment

| | | | | | | |
|------|-----|------------------|---|----|------|----------|
| N702 | 207 | Equipment Number | M | AN | 1/15 | Must use |
|------|-----|------------------|---|----|------|----------|

Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

6 digits – Container or Trailer Number without BIC check digit
 7 digits – Container or Trailer Number with BIC check digit (ISO-6346)
 10 characters – Unit Load Device (ULD) Number (IATA)

Use NONE (4 characters) if no equipment number is being sent

Equipment number must be specified if equipment initial is used

| | | | | | | |
|------|----|--------|---|---|------|--------|
| N703 | 81 | Weight | X | R | 1/10 | Future |
|------|----|--------|---|---|------|--------|

Description: Numeric value of weight

| | | | | | | |
|------|-----|------------------|---|----|-----|--------|
| N704 | 187 | Weight Qualifier | X | ID | 1/2 | Future |
|------|-----|------------------|---|----|-----|--------|

Description: Code defining the type of weight

All valid standard codes are used. (Total Codes: 52)

| | | | | | | |
|------|-----|-------------|---|----|-----|--------|
| N705 | 167 | Tare Weight | X | N0 | 3/8 | Future |
|------|-----|-------------|---|----|-----|--------|

Description: Weight of the equipment

| | | | | | | |
|------|-----|------------------|---|----|-----|--------|
| N706 | 232 | Weight Allowance | O | N0 | 2/6 | Unused |
|------|-----|------------------|---|----|-----|--------|

Description: Allowance made for increased weight due to such factors as snow

| | | | | | | |
|------|-----|---------|---|----|-----|--------|
| N707 | 205 | Dunnage | O | N0 | 1/6 | Unused |
|------|-----|---------|---|----|-----|--------|

Description: Weight of material used to protect lading (even bracings, false floors, etc.)

| | | | | | | |
|------|-----|--------|---|---|-----|--------|
| N708 | 183 | Volume | X | R | 1/8 | Future |
|------|-----|--------|---|---|-----|--------|

Description: Value of volumetric measure

| | | | | | | |
|------|-----|-----------------------|---|----|-----|--------|
| N709 | 184 | Volume Unit Qualifier | X | ID | 1/1 | Future |
|------|-----|-----------------------|---|----|-----|--------|

Description: Code identifying the volume unit

All valid standard codes are used. (Total Codes: 16)

| | | | | | | |
|------|-----|----------------|---|----|-----|--------|
| N710 | 102 | Ownership Code | O | ID | 1/1 | Unused |
|------|-----|----------------|---|----|-----|--------|

Description: Code indicating the relationship of equipment to carrier or ownership of equipment

All valid standard codes are used. (Total Codes: 5)

| | | | | | | |
|------|----|----------------------------|---|----|-----|------|
| N711 | 40 | Equipment Description Code | O | ID | 2/2 | Used |
|------|----|----------------------------|---|----|-----|------|

Description: Code identifying type of equipment used for shipment

Motor equipment codes

| Code | Description | Usage | Format |
|------|--|-------|--------|
| TV | Truck – Van | | |
| HV | Truck – Van – High Cubic Capacity | | |
| TL | Trailer | | |
| TF | Trailer – Dry Freight | | |
| RT | Trailer – Temperature Controlled | | |
| TW | Trailer – Refrigerated | | |
| FF | Trailer – Refrigerated (Frozen) | | |
| TQ | Trailer – Heated | | |
| TI | Trailer – Insulated | | |
| TM | Trailer – Insulated/Ventilated | | |
| TA | Trailer – Insulated/Ventilated/Heated | | |
| FT | Trailer – Flatbed | | |
| FH | Trailer – Flatbed (with headboards) | | |
| FN | Trailer – Flatbed (without headboards) | | |
| SD | Trailer – Flatbed – Single Drop Deck | | |
| DD | Trailer – Flatbed – Double Drop Deck | | |
| TJ | Trailer – Tank – Chemicals | | |
| TK | Trailer – Tank – Food | | |
| TG | Trailer – Tank – Gas | | |
| 2F | Trailer – Roadrailer | | |
| | | | |

Rail equipment codes

| Code | Description | Usage | Format |
|------|--|-------|--------|
| RR | Railcar | | |
| BX | Railcar – Boxcar | | |
| RC | Railcar – Boxcar - Refrigerated (Reefer) | | |
| IX | Railcar – Boxcar - Insulated | | |
| NX | Railcar – Boxcar – Interior Bulkheads | | |
| RF | Railcar – Flatcar | | |
| RE | Railcar – Flatcar – End Bulkheads | | |
| RO | Railcar – Gondola – Open | | |
| RG | Railcar – Gondola – Covered | | |
| RI | Railcar – Gondola – Covered – Interior Bulkheads | | |
| HO | Railcar – Hopper – Open | | |
| HC | Railcar – Hopper – Covered | | |
| HP | Railcar – Hopper – Covered – Pneumatic Discharge | | |
| TN | Railcar – Tank car | | |
| SK | Railcar – Stacker | | |
| | | | |

Ocean equipment codes

| Code | Description | Usage | Format |
|------|--------------------|-------|--------|
| VE | Vessel | | |
| VT | Vessel - Container | | |
| | | | |

| Barge equipment codes | | | |
|-----------------------|------------------------|-------|--------|
| Code | Description | Usage | Format |
| BR | Barge | | |
| BO | Barge (Open) | | |
| BC | Barge (Closed/Covered) | | |
| | | | |

| Intermodal equipment codes | | | |
|----------------------------|---|-------|--------|
| Code | Description | Usage | Format |
| CH | Chassis | | |
| CN | Container | | |
| 20 | Container – 20 Ft Open Top | | |
| 2B | Container – 20 Ft Closed Top | | |
| 40 | Container – 40 ft Open Top | | |
| 4B | Container – 40 ft Closed Top | | |
| CZ | Container – Refrigerated | | |
| AT | Container – Temperature Controlled | | |
| CI | Container – Insulated | | |
| CJ | Container – Insulated/Ventilated | | |
| CK | Container – Insulated/Ventilated/Heated | | |
| VA | Container – Vented | | |
| LS | Container – Flat Rack – Half Height | | |
| PL | Container – Platform | | |
| CX | Container – Tank | | |
| CW | Container – Tank – Chemicals | | |
| CQ | Container – Tank – Food | | |
| CG | Container – Tank – Gas | | |
| BK | Container – Bulk | | |
| | | | |

| Air equipment codes | | | |
|---------------------|------------------------|-------|--------|
| Code | Description | Usage | Format |
| UL | Unit load device (ULD) | | |
| | | | |

| | | | | | | |
|------|-----|--|---|----|-----|---------------|
| N712 | 140 | Standard Carrier Alpha Code | O | ID | 2/4 | Unused |
| | | Description: Standard Carrier Alpha Code | | | | |
| N713 | 319 | Temperature Control | O | AN | 3/6 | Unused |
| | | Description: Free-form abbreviation of temperature range or flash-point temperature | | | | |
| N714 | 219 | Position | O | AN | 1/3 | Future |
| | | Description: Relative position of shipment in car, trailer, or container (mutually defined) | | | | |
| N715 | 567 | Equipment Length | O | N0 | 4/5 | Used |
| | | Description: Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11) | | | | |
| N716 | 571 | Tare Qualifier Code | X | ID | 1/1 | Unused |

| | | | | | | |
|------|-----|---|---|----|-----|---------------|
| | | Description: Code identifying the type of tare All valid standard codes are used. (Total Codes: 2) | | | | |
| N717 | 188 | Weight Unit Code | O | ID | 1/1 | Future |
| | | Description: Code specifying the weight unit All valid standard codes are used. (Total Codes: 8) | | | | |
| N718 | 761 | Equipment Number Check Digit | O | N0 | 1/1 | Unused |
| | | Description: Number which designates the check digit applied to a piece of equipment | | | | |
| | | Equipment number check digit is expected as part of Equipment Number (N702) | | | | |
| | | | | | | |
| N719 | 56 | Type of Service Code | O | ID | 2/2 | Future |
| | | Description: Code specifying extent of transportation service requested All valid standard codes are used. (Total Codes: 21) | | | | |
| N720 | 65 | Height | O | R | 1/8 | Used |
| | | Description: Vertical dimension of an object measured when the object is in the upright position | | | | |
| N721 | 189 | Width | O | R | 1/8 | Used |
| | | Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position | | | | |
| N722 | 24 | Equipment Type | O | ID | 4/4 | Used |
| | | Description: Code identifying equipment type | | | | |
| | | ISO-6346 Intermodal Container Type Codes (Type 4 characters) | | | | |
| | | | | | | |
| N723 | 140 | Standard Carrier Alpha Code | O | ID | 2/4 | Unused |
| | | Description: Standard Carrier Alpha Code | | | | |
| N724 | 301 | Car Type Code | O | ID | 1/4 | Future |
| | | Description: Code specifying type of rail car or intermodal equipment type and its general characteristics | | | | |

Syntax Rules:

1. P0304 - If either N703 or N704 is present, then the other is required.
2. P0516 - If either N705 or N716 is present, then the other is required.
3. P0809 - If either N708 or N709 is present, then the other is required.

Semantics:

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

Comments:

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

N7A Accessorial Equipment Details

| | |
|--------------------|-------------|
| Pos: 0900 | Max: 1 |
| Heading - Optional | |
| Loop: 1000 | Elements: 9 |

User Option (Usage): Future

Purpose: To identify the accessorial equipment required to load or unload product

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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| N7A01 | 1042 | Load or Device Code | O | ID | 2/2 | Used |
| | | Description: Code identifying the device required to load or unload product All valid standard codes are used. (Total Codes: 5) | | | | |
| N7A02 | 82 | Length | O | R | 1/8 | Used |
| | | Description: Largest horizontal dimension of an object measured when the object is in the upright position | | | | |
| N7A03 | 1043 | Diameter | O | R | 1/2 | Used |
| | | Description: Diameter of the object | | | | |
| N7A04 | 1044 | Hose Type Code | O | ID | 3/3 | Used |
| | | Description: Code identifying the type of hose required for loading or unloading the product All valid standard codes are used. (Total Codes: 14) | | | | |
| N7A05 | 1043 | Diameter | O | R | 1/2 | Used |
| | | Description: Diameter of the object | | | | |
| N7A06 | 1043 | Diameter | O | R | 1/2 | Used |
| | | Description: Diameter of the object | | | | |
| N7A07 | 1045 | Inlet or Outlet Material Type Code | O | ID | 2/2 | Used |
| | | Description: Code indicating the type of material used in the construction of the inlet or outlet All valid standard codes are used. (Total Codes: 5) | | | | |
| N7A08 | 1046 | Inlet or Outlet Fitting Type Code | O | ID | 2/2 | Used |
| | | Description: Code indicating the type of fitting required to make the connection of the inlet or outlet All valid standard codes are used. (Total Codes: 7) | | | | |
| N7A09 | 1047 | Miscellaneous Equipment Code | O | ID | 2/2 | Used |
| | | Description: Code indicating the miscellaneous equipment required to load or unload a product All valid standard codes are used. (Total Codes: 13) | | | | |

Semantics:

1. N7A02 is the length of the hose in feet.
2. N7A03 is the diameter of the hose in inches. The hose connects the trailer with the storage tank, etc.
3. N7A05 is the diameter of the outlet or inlet in inches.
4. N7A06 is the diameter of the hose in inches. This hose connects the trailer to an unloading device (pump, blower, etc.).

N7B Additional Equipment Details

| | |
|--------------------|-------------|
| Pos: 1000 | Max: 1 |
| Heading - Optional | |
| Loop: 1000 | Elements: 6 |

User Option (Usage): Future

Purpose: To identify additional equipment 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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| N7B01 | 1024 | Number of Tank Compartments | O | N0 | 1/2 | Used |
| | | Description: Number of compartments in a Tank Trailer | | | | |
| N7B02 | 1025 | Loading or Discharge Location Code | O | ID | 1/1 | Used |
| | | Description: Code indicating the location of the loading or discharge line connection used for loading or unloading product from a trailer or container | | | | |
| | | All valid standard codes are used. (Total Codes: 3) | | | | |
| N7B03 | 1026 | Vessel Material Code | O | ID | 3/3 | Used |
| | | Description: Code indicating the material that is used in construction of the cargo tank vessel | | | | |
| | | All valid standard codes are used. (Total Codes: 7) | | | | |
| N7B04 | 1030 | Gasket Type Code | O | ID | 3/3 | Used |
| | | Description: Code indicating the type of gaskets (used in the trailer valves and hoses) that are required to load or unload the product | | | | |
| | | All valid standard codes are used. (Total Codes: 14) | | | | |
| N7B05 | 1031 | Trailer Lining Type Code | O | ID | 3/3 | Used |
| | | Description: Code indicating the type of trailer (vessel) lining required by the product | | | | |
| | | All valid standard codes are used. (Total Codes: 13) | | | | |
| N7B06 | 127 | Reference Identification | O | AN | 1/80 | Used |
| | | Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | |

Semantics:

1. N7B06 is the Department of Transportation or the Interstate Commerce Commission Motor Carrier Cargo Tank Specification.

Comments:

1. N7B06 may include but are not limited to MC300 through MC307, MC310 through MC312, MC330, MC331, MC338, DOT 406, DOT 407, and DOT 412.

MEA Measurements

| | |
|---------------------------|---------------------|
| Pos: 1100 | Max: 1 |
| Heading - Optional | |
| Loop: 1000 | Elements: 12 |

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

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> |
|------------|-----------|--------------------------------------|------------|-------------|----------------|--------------|
| MEA01 | 737 | Measurement Reference ID Code | O | ID | 2/2 | Used |

Description: Code identifying the broad category to which a measurement applies

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |
| TE | Temperature | | |
| | | | |

| | | | | | | |
|-------|-----|------------------------------|---|----|-----|------|
| MEA02 | 738 | Measurement Qualifier | O | ID | 1/3 | Used |
|-------|-----|------------------------------|---|----|-----|------|

Description: Code identifying a specific product or process characteristic to which a measurement applies

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |
| AD | Ambient | | |
| | | | |

| | | | | | | |
|-------|-----|--------------------------|---|---|------|------|
| MEA03 | 739 | Measurement Value | X | R | 1/20 | Used |
|-------|-----|--------------------------|---|---|------|------|

Description: The value of the measurement

| | | | | | | |
|-------|------|----------------------------------|---|------|--|------|
| MEA04 | C001 | Composite Unit of Measure | X | Comp | | Used |
|-------|------|----------------------------------|---|------|--|------|

Description: To identify a composite unit of measure(See Figures Appendix for examples of use)

| | | | | | | |
|----------|-----|---|---|----|-----|----------|
| MEA04-01 | 355 | Unit or Basis for Measurement Code | M | ID | 2/2 | Must use |
|----------|-----|---|---|----|-----|----------|

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |
| CE | Celsius | | |
| FA | Fahrenheit | | |
| | | | |

| | | | | | | |
|----------|------|-----------------|---|---|------|---------------|
| MEA04-02 | 1018 | Exponent | O | R | 1/15 | Future |
|----------|------|-----------------|---|---|------|---------------|

Description: Power to which a unit is raised

| | | | | | | |
|----------|-----|-------------------|---|---|------|---------------|
| MEA04-03 | 649 | Multiplier | O | R | 1/10 | Future |
|----------|-----|-------------------|---|---|------|---------------|

Description: Value to be used as a multiplier to obtain a new value

| | | | | | | |
|----------|-----|---|---|----|-----|---------------|
| MEA04-04 | 355 | Unit or Basis for Measurement Code | O | ID | 2/2 | Unused |
|----------|-----|---|---|----|-----|---------------|

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. (Total Codes: 884)

| | | | | | | |
|----------|------|--|---|----|------|---------------|
| MEA04-05 | 1018 | Exponent | O | R | 1/15 | Unused |
| | | Description: Power to which a unit is raised | | | | |
| MEA04-06 | 649 | Multiplier | O | R | 1/10 | Unused |
| | | Description: Value to be used as a multiplier to obtain a new value | | | | |
| MEA04-07 | 355 | Unit or Basis for Measurement Code | O | ID | 2/2 | Unused |
| | | 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. (Total Codes: 884) | | | | |
| MEA04-08 | 1018 | Exponent | O | R | 1/15 | Unused |
| | | Description: Power to which a unit is raised | | | | |
| MEA04-09 | 649 | Multiplier | O | R | 1/10 | Unused |
| | | Description: Value to be used as a multiplier to obtain a new value | | | | |
| MEA04-10 | 355 | Unit or Basis for Measurement Code | O | ID | 2/2 | Unused |
| | | 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. (Total Codes: 884) | | | | |
| MEA04-11 | 1018 | Exponent | O | R | 1/15 | Unused |
| | | Description: Power to which a unit is raised | | | | |
| MEA04-12 | 649 | Multiplier | O | R | 1/10 | Unused |
| | | Description: Value to be used as a multiplier to obtain a new value | | | | |
| MEA04-13 | 355 | Unit or Basis for Measurement Code | O | ID | 2/2 | Unused |
| | | 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. (Total Codes: 884) | | | | |
| MEA04-14 | 1018 | Exponent | O | R | 1/15 | Unused |
| | | Description: Power to which a unit is raised | | | | |
| MEA04-15 | 649 | Multiplier | O | R | 1/10 | Unused |
| | | Description: Value to be used as a multiplier to obtain a new value | | | | |
| MEA05 | 740 | Range Minimum | X | R | 1/20 | Used |
| | | Description: The value specifying the minimum of the measurement range | | | | |
| MEA06 | 741 | Range Maximum | X | R | 1/20 | Used |
| | | Description: The value specifying the maximum of the measurement range | | | | |
| MEA07 | 935 | Measurement Significance Code | O | ID | 2/2 | Future |
| | | Description: Code used to benchmark, qualify or further define a measurement value | | | | |
| | | All valid standard codes are used. (Total Codes: 130) | | | | |
| MEA08 | 936 | Measurement Attribute Code | X | ID | 2/2 | Future |
| | | Description: Code used to express an attribute response when a numeric measurement value cannot be determined | | | | |
| | | All valid standard codes are used. (Total Codes: 59) | | | | |
| MEA09 | 752 | Surface/Layer/Position Code | O | ID | 2/2 | Future |
| | | Description: Code indicating the product surface, layer or position that is being described | | | | |
| | | All valid standard codes are used. (Total Codes: 109) | | | | |
| MEA10 | 1373 | Measurement Method or Device | O | ID | 2/4 | Future |

| | | | | | | |
|-------|------|--|---|----|------|---------------|
| | | Description: The method or device used to record the measurement All valid standard codes are used. (Total Codes: 14) | | | | |
| MEA11 | 1270 | Code List Qualifier Code | X | ID | 1/3 | Future |
| | | Description: Code identifying a specific industry code list All valid standard codes are used. (Total Codes: 969) | | | | |
| MEA12 | 1271 | Industry Code | X | AN | 1/30 | Future |
| | | Description: Code indicating a code from a specific industry code list | | | | |

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. E0412 - Only one of MEA04 or MEA12 may be present.
3. L050412 - If MEA05 is present, then at least one of MEA04 or MEA12 is required.
4. L060412 - If MEA06 is present, then at least one of MEA04 or MEA12 is required.
5. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
6. E0803 - Only one of MEA08 or MEA03 may be present.
7. P1112 - If either MEA11 or MEA12 is present, then the other is required.

Semantics:

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

Comments:

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

Loop Stop-off Details

| | |
|------------|---------------|
| Pos: 0100 | Repeat: 99 |
| Optional | |
| Loop: 2000 | Elements: N/A |

User Option (Usage): Used

Purpose: To specify stop-off detail reference numbers and stop reason

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Reg</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|--|------------|----------------|---------------|---------------|
| 0100 | S5 | Stop-off Details | O | 1 | | Used |
| 0200 | G62 | Date/Time | O | 3 | | Used |
| 0300 | L11 | Business Instructions and Reference Number | O | >1 | | Used |
| 0400 | ITA | Allowance, Charge or Service | O | 20 | | Future |
| 0500 | | Loop 2100 | O | | 1 | Used |
| 1000 | | Loop 2200 | O | | 99 | Unused |
| 2000 | | Loop 2300 | O | | >1 | Used |

S5 Stop-off Details

| | |
|--------------------------|---------------------|
| Pos: 0100 | Max: 1 |
| Detail - Optional | |
| Loop: 2000 | Elements: 11 |

User Option (Usage): Used

Purpose: To specify stop-off detail reference numbers and stop reason

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> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------------------|------------------------------------|------------|-------------|----------------|--------------|------|-------------|-------|--------|--|--|--|--|----|-------------------------------|--|--|----|---------------------------------|--|--|----|----------------------------------|--|--|----|------------------------------------|--|--|--|--|--|--|
| S501 | 165 | Stop Sequence Number | M | N0 | 1/3 | Must use | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description: Identifying number for the specific stop and the sequence in which the stop is to be performed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S502 | 163 | Stop Reason Code | M | ID | 2/2 | Must use | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description: Code specifying the reason for the stop | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>Code</th><th>Description</th><th>Usage</th><th>Format</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td>CL</td><td>Complete Load (Single Pickup)</td><td></td><td></td></tr><tr><td>PL</td><td>Partial Load (Multiple Pickups)</td><td></td><td></td></tr><tr><td>CU</td><td>Complete Unload (Single Dropoff)</td><td></td><td></td></tr><tr><td>PU</td><td>Partial Unload (Multiple Dropoffs)</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> | | | | | | | Code | Description | Usage | Format | | | | | CL | Complete Load (Single Pickup) | | | PL | Partial Load (Multiple Pickups) | | | CU | Complete Unload (Single Dropoff) | | | PU | Partial Unload (Multiple Dropoffs) | | | | | | |
| Code | Description | Usage | Format | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CL | Complete Load (Single Pickup) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PL | Partial Load (Multiple Pickups) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CU | Complete Unload (Single Dropoff) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PU | Partial Unload (Multiple Dropoffs) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S503 | 81 | Weight | X | R | 1/10 | Future | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description: Numeric value of weight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S504 | 188 | Weight Unit Code | X | ID | 1/1 | Future | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description: Code specifying the weight unit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| All valid standard codes are used. (Total Codes: 8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S505 | 382 | Number of Units Shipped | X | R | 1/10 | Unused | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S506 | 355 | Unit or Basis for Measurement Code | X | ID | 2/2 | Unused | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. (Total Codes: 884) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S507 | 183 | Volume | X | R | 1/8 | Future | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description: Value of volumetric measure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S508 | 184 | Volume Unit Qualifier | X | ID | 1/1 | Future | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description: Code identifying the volume unit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| All valid standard codes are used. (Total Codes: 16) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S509 | 352 | Description | O | AN | 1/80 | Future | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description: A free-form description to clarify the related data elements and their content | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S510 | 154 | Standard Point Location Code | O | ID | 6/9 | Future | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S511 | 190 | Accomplish Code | O | ID | 1/1 | Future | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description: Code indicating the status of a specified stop | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

All valid standard codes are used. (Total Codes: 2)

Syntax Rules:

1. P0304 - If either S503 or S504 is present, then the other is required.
2. P0506 - If either S505 or S506 is present, then the other is required.
3. P0708 - If either S507 or S508 is present, then the other is required.

Semantics:

1. S509 is the stop reason description.

G62 Date/Time

| | |
|--------------------------|--------------------|
| Pos: 0200 | Max: 3 |
| Detail - Optional | |
| Loop: 2000 | Elements: 5 |

User Option (Usage): Used

Purpose: To specify pertinent dates and times

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> |
|------------|-----------|-----------------------|------------|-------------|----------------|--------------|
| G6201 | 432 | Date Qualifier | X | ID | 2/2 | Used |

Description: Code specifying type of date

| Code | Description | Usage | Format |
|------|--------------------------------|-------|--------|
| 10 | Client Ship On Date | | |
| 37 | Client Ship Not Before Date | | |
| 38 | Client Ship Not After Date | | |
| 68 | Client Deliver On Date | | |
| 53 | Client Deliver Not Before Date | | |
| 54 | Client Deliver Not After Date | | |
| | | | |

| | | | | | | |
|-------|-----|-------------|---|----|-----|------|
| G6202 | 373 | Date | X | DT | 8/8 | Used |
|-------|-----|-------------|---|----|-----|------|

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

| | | | | | | |
|-------|-----|-----------------------|---|----|-----|------|
| G6203 | 176 | Time Qualifier | X | ID | 1/2 | Used |
|-------|-----|-----------------------|---|----|-----|------|

Description: Code specifying the reported time

| Code | Description | Usage | Format |
|------|---|-------|--------|
| | | | |
| Y | Client Requested Shipping/Pickup Time | | |
| EP | Client Requested Shipping/Pickup Earliest Time | | |
| LP | Client Requested Shipping/Pickup Latest Time | | |
| Z | Client Requested Delivery/Dropoff Time | | |
| ED | Client Requested Delivery/Dropoff Earliest Time | | |
| LD | Client Requested Delivery/Dropoff Latest Time | | |
| | | | |

| | | | | | | |
|-------|-----|-------------|---|----|-----|------|
| G6204 | 337 | Time | X | TM | 4/8 | Used |
|-------|-----|-------------|---|----|-----|------|

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)

| | | | | | | |
|-------|-----|------------------|---|----|-----|------|
| G6205 | 623 | Time Code | O | ID | 2/2 | Used |
|-------|-----|------------------|---|----|-----|------|

Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |
| 01 | UTC+01 | | |
| 02 | UTC+02 | | |
| 03 | UTC+03 | | |

| | | | |
|----|--------|--|--|
| 04 | UTC+04 | | |
| 05 | UTC+05 | | |
| 06 | UTC+06 | | |
| 07 | UTC+07 | | |
| 08 | UTC+08 | | |
| 09 | UTC+09 | | |
| 10 | UTC+10 | | |
| 11 | UTC+11 | | |
| 12 | UTC+12 | | |
| 13 | UTC-12 | | |
| 14 | UTC-11 | | |
| 15 | UTC-10 | | |
| 16 | UTC-09 | | |
| 17 | UTC-08 | | |
| 18 | UTC-07 | | |
| 19 | UTC-06 | | |
| 20 | UTC-05 | | |
| 21 | UTC-04 | | |
| 22 | UTC-03 | | |
| 23 | UTC-02 | | |
| 24 | UTC-01 | | |
| | | | |

Syntax Rules:

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

L11 Business Instructions and Reference Number

| | |
|-------------------|-------------|
| Pos: 0300 | Max: >1 |
| Detail - Optional | |
| Loop: 2000 | Elements: 5 |

User Option (Usage): Used

Purpose: To specify instructions in this business relationship or a reference number

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|--------------------------|-----|------|---------|-------|
| L1101 | 127 | Reference Identification | X | AN | 1/80 | Used |

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

| | | | | | | |
|-------|-----|------------------------------------|---|----|-----|------|
| L1102 | 128 | Reference Identification Qualifier | X | ID | 2/3 | Used |
|-------|-----|------------------------------------|---|----|-----|------|

Description: Code qualifying the Reference Identification

| Code | Description | Usage | Format |
|------|--|-------|--------|
| BM | Shipper Bill Of Lading Number Air mode – House Air Waybill (HAWB) LTL mode – Straight Bill of Lading FTL mode – Straight Bill of Lading | | |
| CN | Carrier Shipment (Pro) Number | | |
| SO | Client Sales Order | | |
| CO | Client Customer Purchase Order | | |
| RZ | Client Sales Order Customer Return Authorization | | |
| RE | Client Delivery (Release) Order | | |
| VN | Client Vendor Sales Order | | |
| IV | Client Vendor Commercial Invoice Number | | |
| TF | Client Transfer Order | | |
| PO | Client Purchase Order | | |
| CA | Freight Cost Allocation | | |
| KD | Special Instructions | | |
| LOP | Port Of Origin Location Identifier | | |
| POD | Port Of Destination Location Identifier | | |
| SPL | Standard Point Location Code (SPLC) | | |
| ULC | UN Location Code (LOCODE) | | |

| | | | | | | |
|-------|-----|-------------|---|----|------|------|
| L1103 | 352 | Description | X | AN | 1/80 | Used |
|-------|-----|-------------|---|----|------|------|

Description: A free-form description to clarify the related data elements and their content

| | | | | | | |
|-------|-----|------|---|----|-----|--------|
| L1104 | 373 | Date | O | DT | 8/8 | Unused |
|-------|-----|------|---|----|-----|--------|

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

| | | | | | | |
|-------|------|-----------------------------------|---|----|-----|--------|
| L1105 | 1073 | Yes/No Condition or Response Code | O | ID | 1/1 | Unused |
|-------|------|-----------------------------------|---|----|-----|--------|

Description: Code indicating a Yes or No condition or response
All valid standard codes are used. (Total Codes: 4)

Syntax Rules:

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

Semantics:

1. L1104 contains data relating to the qualifier cited in L1102.
2. L1105 indicates if the reference numbers included in this transmission were transmitted to the carrier in electronic format or key entered by the carrier. A "Y" indicates the carrier utilized the electronic shipper supplied reference information to create this document. A "N" indicates the carrier key entered the reference information from a shipper supplied document.

ITA Allowance, Charge or Service

| | |
|-------------------|--------------|
| Pos: 0400 | Max: 20 |
| Detail - Optional | |
| Loop: 2000 | Elements: 17 |

User Option (Usage): Future

Purpose: To specify allowances, charges, or services

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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| ITA01 | 248 | Allowance or Charge Indicator | M | ID | 1/1 | Must use |
| | | Description: Code which indicates an allowance or charge for the service specified All valid standard codes are used. (Total Codes: 7) | | | | |
| ITA02 | 559 | Agency Qualifier Code | X | ID | 2/2 | Used |
| | | Description: Code identifying the agency assigning the code values All valid standard codes are used. (Total Codes: 195) | | | | |
| ITA03 | 560 | Special Services Code | X | ID | 2/10 | Used |
| | | Description: Code identifying the special service All valid standard codes are used. (Total Codes: 172) | | | | |
| ITA04 | 331 | Allowance or Charge Method of Handling Code | M | ID | 2/2 | Must use |
| | | Description: Code indicating method of handling for an allowance or charge All valid standard codes are used. (Total Codes: 22) | | | | |
| ITA05 | 341 | Allowance or Charge Number | O | AN | 1/16 | Used |
| | | Description: The number assigned by a vendor referencing an allowance, promotion, deal or charge | | | | |
| ITA06 | 359 | Allowance or Charge Rate | O | R | 1/15 | Used |
| | | Description: Allowance or Charge Rate per Unit | | | | |
| ITA07 | 360 | Allowance or Charge Total Amount | O | N2 | 1/15 | Used |
| | | Description: Total dollar amount for the allowance or charge | | | | |
| ITA08 | 378 | Allowance/Charge Percent Qualifier | O | ID | 1/1 | Used |
| | | Description: Code indicating on what basis allowance or charge percent is calculated All valid standard codes are used. (Total Codes: 16) | | | | |
| ITA09 | 332 | Percent, Decimal Format | X | R | 1/6 | Used |
| | | Description: Percent given in decimal format (e.g., 0.0 through 100.0 represents 0% through 100%) | | | | |
| ITA10 | 380 | Quantity | X | R | 1/15 | Used |
| | | Description: Numeric value of quantity | | | | |
| ITA11 | 355 | Unit or Basis for Measurement Code | X | 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 All valid standard codes are used. (Total Codes: 884) | | | | |
| ITA12 | 380 | Quantity | X | R | 1/15 | Used |
| | | Description: Numeric value of quantity | | | | |
| ITA13 | 352 | Description | X | AN | 1/80 | Used |
| | | Description: A free-form description to clarify the related data elements and their content | | | | |

| | | | | | | |
|--|-----|---|---|----|------|------|
| ITA14 | 150 | Special Charge or Allowance Code | X | ID | 3/3 | Used |
| Description: Code identifying type of special charge or allowance All valid standard codes are used. (Total Codes: 1114) | | | | | | |
| ITA15 | 822 | Source Subqualifier | O | AN | 1/15 | Used |
| Description: A reference that indicates the table or text maintained by the Source Qualifier | | | | | | |
| ITA16 | 662 | Relationship Code | O | ID | 1/1 | Used |
| Description: Code indicating the relationship between entities All valid standard codes are used. (Total Codes: 5) | | | | | | |
| ITA17 | 355 | Unit or Basis for Measurement Code | O | 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 All valid standard codes are used. (Total Codes: 884) | | | | | | |

Syntax Rules:

1. L02031314 - If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.
2. C0809 - If ITA08 is present, then ITA09 is required.
3. P1011 - If either ITA10 or ITA11 is present, then the other is required.
4. C1502 - If ITA15 is present, then ITA02 is required.
5. C1712 - If ITA17 is present, then ITA12 is required.

Semantics:

1. ITA09 is the allowance or charge percent.
2. ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
3. ITA12 is the quantity of free goods.

Comments:

1. If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.
2. ITA02 identifies the source of the code value in ITA03 or ITA15.
3. If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
4. ITA13 is used to clarify the allowance, charge, or service.
5. ITA15 specifies the individual code list of the agency specified in ITA02.
6. ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

Loop Party Identification

| | |
|------------|---------------|
| Pos: 0500 | Repeat: 1 |
| Optional | |
| Loop: 2100 | 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> |
|------------|-----------|---------------------------------------|------------|----------------|---------------|--------------|
| 0500 | N1 | Party Identification | O | 1 | | Used |
| 0600 | N2 | Additional Name Information | O | 1 | | Used |
| 0700 | N3 | Party Location | O | 2 | | Used |
| 0800 | N4 | Geographic Location | O | 1 | | Used |
| 0900 | PER | Administrative Communications Contact | O | 3 | | Used |

N1 Party Identification

| | |
|--------------------------|--------------------|
| Pos: 0500 | Max: 1 |
| Detail - Optional | |
| Loop: 2100 | 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 | Entity Identifier Code | M | ID | 2/3 | Must use |

Description: Code identifying an organizational entity, a physical location, property or an individual

| Code | Description | Usage | Format |
|------|-------------------------------|-------|--------|
| SF | Ship From Shipping Point | | |
| ZF | Cross Dock (Break Bulk) Point | | |
| ST | Ship To Shipping Point | | |
| | | | |

| | | | | | | |
|------|----|-------------|---|----|------|------|
| N102 | 93 | Name | X | AN | 1/60 | Used |
|------|----|-------------|---|----|------|------|

Description: Free-form name

| | | | | | | |
|------|----|--------------------------------------|---|----|-----|------|
| N103 | 66 | Identification Code Qualifier | X | ID | 1/2 | Used |
|------|----|--------------------------------------|---|----|-----|------|

Description: Code designating the system/method of code structure used for Identification Code (67)

| Code | Description | Usage | Format |
|------|--------------------------------------|-------|--------|
| 1 | DUNS Identifier | | |
| 9 | DUNS+4 Identifier | | |
| 2 | Carrier (SCAC) Code | | |
| 24 | US EIN Identifier | | |
| ES | US AES Identifier | | |
| 91 | Client Specified Identifier | | |
| 92 | Client Customer Specified Identifier | | |
| | | | |

| | | | | | | |
|------|----|----------------------------|---|----|------|------|
| N104 | 67 | Identification Code | X | AN | 2/80 | Used |
|------|----|----------------------------|---|----|------|------|

Description: Code identifying a party or other code

| | | | | | | |
|------|-----|---------------------------------|---|----|-----|---------------|
| N105 | 706 | Entity Relationship Code | O | ID | 2/2 | Unused |
|------|-----|---------------------------------|---|----|-----|---------------|

Description: Code describing entity relationship
All valid standard codes are used. (Total Codes: 124)

| | | | | | | |
|------|----|-------------------------------|---|----|-----|---------------|
| N106 | 98 | Entity Identifier Code | O | ID | 2/3 | Unused |
|------|----|-------------------------------|---|----|-----|---------------|

Description: Code identifying an organizational entity, a physical location, property or an individual

All valid standard codes are used. (Total Codes: 1504)

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.

N2 Additional Name Information

| | |
|-------------------|-------------|
| Pos: 0600 | Max: 1 |
| Detail - Optional | |
| Loop: 2100 | Elements: 2 |

User Option (Usage): Used

Purpose: To specify additional names

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> |
|------------|-----------|------------------------------------|------------|-------------|----------------|--------------|
| N201 | 93 | Name | M | AN | 1/60 | Must use |
| | | Description: Free-form name | | | | |
| N202 | 93 | Name | O | AN | 1/60 | Used |
| | | Description: Free-form name | | | | |

N3 Party Location

| | |
|-------------------|-------------|
| Pos: 0700 | Max: 2 |
| Detail - Optional | |
| Loop: 2100 | 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 | Address Information | M | AN | 1/55 | Must use |

Description: Address information

| |
|--|
| A minimum of 1 N3 segment with at least 1 N301/166 nonblank element is required |
|--|

| | | | | | | |
|------|-----|---------------------|---|----|------|------|
| N302 | 166 | Address Information | O | AN | 1/55 | Used |
|------|-----|---------------------|---|----|------|------|

Description: Address information

N4 Geographic Location

| | |
|--------------------------|--------------------|
| Pos: 0800 | Max: 1 |
| Detail - Optional | |
| Loop: 2100 | 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 | City Name | O | AN | 2/30 | Used |
| | | Description: Free-form text for city name | | | | |
| N402 | 156 | State or Province Code | X | ID | 2/2 | Unused |
| | | Description: Code (Standard State/Province) as defined by appropriate government agency | | | | |
| | | State or Province or Locality is specified in element N407/1715 | | | | |
| N403 | 116 | Postal Code | O | ID | 3/15 | Used |
| | | Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | | | | |
| N404 | 26 | Country Code | X | ID | 2/3 | Used |
| | | Description: Code identifying the country | | | | |
| | | ISO-3166-1 Country Codes (Country 2 characters) | | | | |
| N405 | 309 | Location Qualifier | X | ID | 1/2 | Unused |
| | | Description: Code identifying type of location All valid standard codes are used. (Total Codes: 184) | | | | |
| N406 | 310 | Location Identifier | O | AN | 1/30 | Unused |
| | | Description: Code which identifies a specific location | | | | |
| N407 | 1715 | Country Subdivision Code | X | ID | 1/3 | Used |
| | | Description: Code identifying the country subdivision | | | | |
| | | ISO-3166-2 Country Subdivision Codes (State/Province 1, 2 or 3 characters) | | | | |

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: 0900 | Max: 3 |
| Detail - Optional | |
| Loop: 2100 | Elements: 9 |

User Option (Usage): Used

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

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|-----------------------|-----|------|---------|----------|
| PER01 | 366 | Contact Function Code | M | ID | 2/2 | Must use |

Description: Code identifying the major duty or responsibility of the person or group named

| Code | Meaning |
|------|-----------------------|
| | |
| CN | Party To Be Contacted |
| | |

| | | | | | | |
|-------|----|------|---|----|------|------|
| PER02 | 93 | Name | O | AN | 1/60 | Used |
|-------|----|------|---|----|------|------|

Description: Free-form name

| | | | | | | |
|-------|-----|--------------------------------|---|----|-----|------|
| PER03 | 365 | Communication Number Qualifier | X | ID | 2/2 | Used |
|-------|-----|--------------------------------|---|----|-----|------|

Description: Code identifying the type of communication number

| Code | Meaning |
|------|------------------------|
| | |
| TE | Voice Telephone Number |
| | |

| | | | | | | |
|-------|-----|----------------------|---|----|-------|------|
| PER04 | 364 | Communication Number | X | AN | 1/256 | Used |
|-------|-----|----------------------|---|----|-------|------|

Description: Complete communications number including country or area code when applicable

| | | | | | | |
|-------|-----|--------------------------------|---|----|-----|------|
| PER05 | 365 | Communication Number Qualifier | X | ID | 2/2 | Used |
|-------|-----|--------------------------------|---|----|-----|------|

Description: Code identifying the type of communication number

| Code | Meaning |
|------|----------------------|
| | |
| FX | Fax Telephone Number |
| | |

| | | | | | | |
|-------|-----|----------------------|---|----|-------|------|
| PER06 | 364 | Communication Number | X | AN | 1/256 | Used |
|-------|-----|----------------------|---|----|-------|------|

Description: Complete communications number including country or area code when applicable

| | | | | | | |
|-------|-----|--------------------------------|---|----|-----|------|
| PER07 | 365 | Communication Number Qualifier | X | ID | 2/2 | Used |
|-------|-----|--------------------------------|---|----|-----|------|

Description: Code identifying the type of communication number

| Code | Meaning |
|------|---------------------------|
| | |
| CP | Cellular Telephone Number |
| | |

| | | | | | | |
|-------|-----|----------------------|---|----|-------|------|
| PER08 | 364 | Communication Number | X | AN | 1/256 | Used |
|-------|-----|----------------------|---|----|-------|------|

Description: Complete communications number including country or area code when applicable

| | | | | | | |
|-------|-----|----------------------------------|---|----|------|---------------|
| PER09 | 443 | Contact Inquiry Reference | O | AN | 1/20 | Unused |
|-------|-----|----------------------------------|---|----|------|---------------|

Description: 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.

PER Administrative Communications Contact

| | |
|-------------------|-------------|
| Pos: 0900 | Max: 3 |
| Detail - Optional | |
| Loop: 2100 | Elements: 9 |

User Option (Usage): Used

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

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|-----------------------|-----|------|---------|----------|
| PER01 | 366 | Contact Function Code | M | ID | 2/2 | Must use |

Description: Code identifying the major duty or responsibility of the person or group named

| Code | Description | Usage | Format |
|------|-----------------------|-------|--------|
| | | | |
| CN | Party To Be Contacted | | |
| | | | |

| | | | | | | |
|-------|----|------|---|----|------|------|
| PER02 | 93 | Name | O | AN | 1/60 | Used |
|-------|----|------|---|----|------|------|

Description: Free-form name

| | | | | | | |
|-------|-----|--------------------------------|---|----|-----|------|
| PER03 | 365 | Communication Number Qualifier | X | ID | 2/2 | Used |
|-------|-----|--------------------------------|---|----|-----|------|

Description: Code identifying the type of communication number

| Code | Meaning |
|------|--------------------------|
| | |
| EM | Email Address Identifier |
| | |

| | | | | | | |
|-------|-----|----------------------|---|----|-------|------|
| PER04 | 364 | Communication Number | X | AN | 1/256 | Used |
|-------|-----|----------------------|---|----|-------|------|

Description: Complete communications number including country or area code when applicable

| | | | | | | |
|-------|-----|--------------------------------|---|----|-----|--------|
| PER05 | 365 | Communication Number Qualifier | X | ID | 2/2 | Unused |
|-------|-----|--------------------------------|---|----|-----|--------|

Description: Code identifying the type of communication number
All valid standard codes are used. (Total Codes: 42)

| | | | | | | |
|-------|-----|----------------------|---|----|-------|--------|
| PER06 | 364 | Communication Number | X | AN | 1/256 | Unused |
|-------|-----|----------------------|---|----|-------|--------|

Description: Complete communications number including country or area code when applicable

| | | | | | | |
|-------|-----|--------------------------------|---|----|-----|--------|
| PER07 | 365 | Communication Number Qualifier | X | ID | 2/2 | Unused |
|-------|-----|--------------------------------|---|----|-----|--------|

Description: Code identifying the type of communication number
All valid standard codes are used. (Total Codes: 42)

| | | | | | | |
|-------|-----|----------------------|---|----|-------|--------|
| PER08 | 364 | Communication Number | X | AN | 1/256 | Unused |
|-------|-----|----------------------|---|----|-------|--------|

Description: Complete communications number including country or area code when applicable

| | | | | | | |
|-------|-----|---------------------------|---|----|------|--------|
| PER09 | 443 | Contact Inquiry Reference | O | AN | 1/20 | Unused |
|-------|-----|---------------------------|---|----|------|--------|

Description: 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 Transaction Set Line Number

| | |
|------------|---------------|
| Pos: 2000 | Repeat: >1 |
| | Optional |
| Loop: 2300 | Elements: N/A |

User Option (Usage): Used

Purpose: To reference a line number in a transaction set

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> |
|------------|-----------|--|------------|----------------|---------------|---------------|
| 2000 | LX | Transaction Set Line Number | O | 1 | | Used |
| 2100 | LCT | Logistics Container Tracking Information | O | 1 | | Used |
| 2200 | MAN | Marks and Numbers Information | O | 10 | | Used |
| 2300 | AT5 | Bill of Lading Handling Requirements | O | 6 | | Future |
| 2400 | AMT | Monetary Amount Information | O | 1 | | Future |
| 2500 | CUR | Currency | O | 1 | | Future |
| 2600 | L11 | Business Instructions and Reference Number | O | >1 | | Used |
| 2700 | | Loop 2350 | O | | 99 | Unused |
| 3700 | | Loop 2370 | O | | >1 | Used |

LX

Transaction Set Line Number

| | |
|-------------------|-------------|
| Pos: 2000 | Max: 1 |
| Detail - Optional | |
| Loop: 2300 | Elements: 1 |

User Option (Usage): Used**Purpose:** To reference a line number in a 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> |
|------------|-----------|---------------------|------------|-------------|----------------|--------------|
| LX01 | 554 | Assigned Number | M | N0 | 1/6 | Must use |

Description: Number assigned for differentiation within a transaction set

| |
|--|
| Sequence number 000001-999999 (leading zero filled 6 digits) |
|--|

LCT Logistics Container Tracking Information

Pos: 2100 Max: 1
Detail - Optional
Loop: 2300 Elements: 12

User Option (Usage): Used

Purpose: To identify the necessary information for tracking containers and identifying contents of containers

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> |
|---|-----------|--------------------------|------------|-------------|----------------|--------------|
| LCT01 | 127 | Reference Identification | M | AN | 1/80 | Must use |
| Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | |
| LCT02 | 211 | Packaging Form Code | M | ID | 3/3 | Must use |
| Description: Code for packaging form of the lading quantity | | | | | | |

Packaged Units

| Code | Meaning |
|------|--|
| BAG | Bag |
| BAL | Bale |
| BBL | Barrel |
| BOX | Box |
| CAS | Case |
| CBY | Carboy |
| CLD | Car Load, Rail |
| CNT | Container |
| COL | Coil |
| CRT | Crate |
| CTN | Carton |
| CYL | Cylinder |
| DRM | Drum |
| PCS | Pieces |
| PKG | Package |
| PLT | Pallet |
| ROL | Roll |
| SAK | Sack |
| SKD | Skid |
| SLP | Slip Sheet |
| SPL | Spool |
| TBE | Tube |
| TBN | Tote Bin |
| TLD | Intermodal Trailer/Container Load (Rail) |
| TNK | Tank |
| UNT | Unit |

Bulk Units

| Code | Meaning |
|------|---------------|
| BLK | Bulk |
| DBK | Bulk – Dry |
| LBK | Bulk – Liquid |

| | |
|--|--|
| | |
|--|--|

| |
|-----------------|
| Undefined Units |
|-----------------|

| Code | Meaning |
|------|---|
| PCK | Packed (not otherwise specified or unknown) |
| | |

If separate containerized, palletized and cartonized (or equivalent) lading unit counts are being sent, categorize the lading unit counts as follows

| |
|---------------------|
| Containerized Units |
|---------------------|

| Code | Meaning |
|------|--|
| CLD | Car Load, Rail |
| CNT | Container |
| TLD | Intermodal Trailer/Container Load (Rail) |
| TNK | Tank |
| | |

| |
|------------------|
| Palletized Units |
|------------------|

| Code | Meaning |
|------|------------|
| PLT | Pallet |
| SKD | Skid |
| SLP | Slip Sheet |
| | |

| |
|----------------------------------|
| Cartonized (or equivalent) Units |
|----------------------------------|

| Code | Meaning |
|------|----------|
| BAG | Bag |
| BAL | Bale |
| BBL | Barrel |
| BOX | Box |
| CAS | Case |
| CBY | Carboy |
| COL | Coil |
| CRT | Crate |
| CTN | Carton |
| CYL | Cylinder |
| DRM | Drum |
| PCS | Pieces |
| PKG | Package |
| ROL | Roll |
| SAK | Sack |
| SPL | Spool |
| TBE | Tube |
| TBN | Tote Bin |
| UNT | Unit |
| | |

LCT03 352 **Description** O AN 1/80 **Future**

Description: A free-form description to clarify the related data elements and their content

LCT04 188 **Weight Unit Code** X ID 1/1 Used

Description: Code specifying the weight unit

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |
| K | Kilograms | | |
| L | Pounds | | |
| | | | |

LCT05 395 **Unit Weight** X R 1/8 Used

Description: Numeric value of weight per unit

LCT06 90 **Measurement Unit Qualifier** X ID 1/1 Used

Description: Code specifying the linear dimensional unit

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |
| N | Inches | | |
| E | Feet | | |
| C | Centimeters | | |
| M | Meters | | |
| | | | |

LCT07 82 **Length** X R 1/8 Used

Description: Largest horizontal dimension of an object measured when the object is in the upright position

LCT08 189 **Width** X R 1/8 Used

Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position

LCT09 65 **Height** X R 1/8 Used

Description: Vertical dimension of an object measured when the object is in the upright position

LCT10 184 **Volume Unit Qualifier** X ID 1/1 Used

Description: Code identifying the volume unit

| Code | Description | Usage | Format |
|------|--------------|-------|--------|
| | | | |
| E | Cubic Feet | | |
| X | Cubic Meters | | |
| G | Gallons | | |
| V | Liters | | |
| | | | |

LCT11 183 **Volume** X R 1/8 Used

Description: Value of volumetric measure

LCT12 399 **Pallet Exchange Code** O ID 1/1 **Future**

Description: Code specifying pallet exchange instructions
All valid standard codes are used. (Total Codes: 5)

Syntax Rules:

1. P0405 - If either LCT04 or LCT05 is present, then the other is required.
2. L06070809 - If LCT06 is present, then at least one of LCT07, LCT08 or LCT09 is required.
3. C0706 - If LCT07 is present, then LCT06 is required.
4. C0806 - If LCT08 is present, then LCT06 is required.
5. C0906 - If LCT09 is present, then LCT06 is required.
6. P1011 - If either LCT10 or LCT11 is present, then the other is required.

Semantics:

1. LCT01 is the container identification number.
2. LCT12 should only be used when LCT02 is equal to PLT.

MAN Marks and Numbers Information

Pos: 2200 Max: 10
Detail - Optional
Loop: 2300 Elements: 6

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

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> |
|------------|-----------|-----------------------------|------------|-------------|----------------|--------------|
| MAN01 | 88 | Marks and Numbers Qualifier | M | ID | 1/2 | Must use |

Description: Code specifying the application or source of Marks and Numbers (87)

Pallet level usage

| Code | Meaning |
|------|---------------------------|
| AA | Pallet SSCC-18 Number |
| SM | Pallet Proprietary Number |
| UC | Pallet UCC-14 Number |

Case level usage

| Code | Meaning |
|------|--|
| AA | Case SSCC-18 Number |
| CP | Case Parcel Carrier Package Tracking Number (if case SSCC-18 unused) |
| UC | Case UCC-14 Number |

| | | | | | | |
|-------|----|-------------------|---|----|------|----------|
| MAN02 | 87 | Marks and Numbers | M | AN | 1/48 | Must use |
|-------|----|-------------------|---|----|------|----------|

Description: Marks and numbers used to identify a shipment or parts of a shipment

| | | | | | | |
|-------|----|-------------------|---|----|------|--------|
| MAN03 | 87 | Marks and Numbers | O | AN | 1/48 | Unused |
|-------|----|-------------------|---|----|------|--------|

Description: Marks and numbers used to identify a shipment or parts of a shipment

| | | | | | | |
|-------|----|-----------------------------|---|----|-----|------|
| MAN04 | 88 | Marks and Numbers Qualifier | X | ID | 1/2 | Used |
|-------|----|-----------------------------|---|----|-----|------|

Description: Code specifying the application or source of Marks and Numbers (87)

Pallet level usage

| Code | Meaning |
|------|--|
| W | Pallet Permanent Serial Number (when needed) |
| UC | Pallet UCC-14 Number |

Case level usage

| Code | Meaning |
|------|--|
| CP | Case Parcel Carrier Package Tracking Number (if case SSCC-18 used) |
| UC | Case UCC-14 Number |

| | | | | | | |
|--|----|--------------------------|---|----|------|---------------|
| MAN05 | 87 | Marks and Numbers | X | AN | 1/48 | Used |
| Description: Marks and numbers used to identify a shipment or parts of a shipment | | | | | | |
| MAN06 | 87 | Marks and Numbers | O | AN | 1/48 | Unused |
| Description: Marks and numbers used to identify a shipment or parts of a shipment | | | | | | |

Syntax Rules:

1. P0405 - If either MAN04 or MAN05 is present, then the other is required.
2. C0605 - If MAN06 is present, then MAN05 is required.

Semantics:

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

Comments:

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

AT5 Bill of Lading Handling Requirements

| | |
|-------------------|-------------|
| Pos: 2300 | Max: 6 |
| Detail - Optional | |
| Loop: 2300 | Elements: 6 |

User Option (Usage): Future

Purpose: To identify Bill of Lading handling and service 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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| AT501 | 152 | Special Handling Code | X | ID | 2/3 | Used |
| | | Description: Code specifying special transportation handling instructions All valid standard codes are used. (Total Codes: 573) | | | | |
| AT502 | 560 | Special Services Code | X | ID | 2/10 | Used |
| | | Description: Code identifying the special service All valid standard codes are used. (Total Codes: 172) | | | | |
| AT503 | 153 | Special Handling Description | X | AN | 2/30 | Used |
| | | Description: Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate | | | | |
| AT504 | 355 | Unit or Basis for Measurement Code | X | 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 All valid standard codes are used. (Total Codes: 884) | | | | |
| AT505 | 408 | Temperature | X | R | 1/4 | Used |
| | | Description: Temperature | | | | |
| AT506 | 408 | Temperature | X | R | 1/4 | Used |
| | | Description: Temperature | | | | |

Syntax Rules:

1. E0103 - Only one of AT501 or AT503 may be present.
2. E0203 - Only one of AT502 or AT503 may be present.
3. L040506 - If AT504 is present, then at least one of AT505 or AT506 is required.
4. C0504 - If AT505 is present, then AT504 is required.
5. C0604 - If AT506 is present, then AT504 is required.

Semantics:

1. AT505 is the minimum temperature.
2. AT506 is the maximum temperature.

AMT Monetary Amount Information

| | |
|-------------------|-------------|
| Pos: 2400 | Max: 1 |
| Detail - Optional | |
| Loop: 2300 | Elements: 3 |

User Option (Usage): Future

Purpose: To indicate the total monetary amount

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> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| AMT01 | 522 | Amount Qualifier Code | M | ID | 1/3 | Must use |
| | | Description: Code to qualify amount All valid standard codes are used. (Total Codes: 1770) | | | | |
| AMT02 | 782 | Monetary Amount | M | R | 1/18 | Must use |
| | | Description: Monetary amount | | | | |
| AMT03 | 478 | Credit/Debit Flag Code | O | ID | 1/1 | Used |
| | | Description: Code indicating whether amount is a credit or debit All valid standard codes are used. (Total Codes: 2) | | | | |

CUR Currency

| | |
|--------------------------|---------------------|
| Pos: 2500 | Max: 1 |
| Detail - Optional | |
| Loop: 2300 | Elements: 21 |

User Option (Usage): Future
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

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> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| CUR01 | 98 | Entity Identifier Code | M | ID | 2/3 | Must use |
| | | Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes are used. (Total Codes: 1504) | | | | |
| CUR02 | 100 | Currency Code | M | ID | 3/3 | Must use |
| | | Description: Code (Standard ISO) for country in whose currency the charges are specified | | | | |
| CUR03 | 280 | Exchange Rate | O | R | 4/10 | Used |
| | | Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another | | | | |
| CUR04 | 98 | Entity Identifier Code | O | ID | 2/3 | Used |
| | | Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes are used. (Total Codes: 1504) | | | | |
| CUR05 | 100 | Currency Code | O | ID | 3/3 | Used |
| | | Description: Code (Standard ISO) for country in whose currency the charges are specified | | | | |
| CUR06 | 669 | Currency Market/Exchange Code | O | ID | 3/3 | Used |
| | | Description: Code identifying the market upon which the currency exchange rate is based All valid standard codes are used. (Total Codes: 6) | | | | |
| CUR07 | 374 | Date/Time Qualifier | X | ID | 3/3 | Used |
| | | Description: Code specifying type of date or time, or both date and time All valid standard codes are used. (Total Codes: 1288) | | | | |
| CUR08 | 373 | Date | O | DT | 8/8 | Used |
| | | Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | |
| CUR09 | 337 | Time | O | TM | 4/8 | Used |
| | | 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) | | | | |
| CUR10 | 374 | Date/Time Qualifier | X | ID | 3/3 | Used |
| | | Description: Code specifying type of date or time, or both date and time All valid standard codes are used. (Total Codes: 1288) | | | | |
| CUR11 | 373 | Date | X | DT | 8/8 | Used |
| | | Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | |
| CUR12 | 337 | Time | X | TM | 4/8 | Used |
| | | 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) | | | | | | |
| CUR13 | 374 | Date/Time Qualifier | X | ID | 3/3 | Used |
| Description: Code specifying type of date or time, or both date and time All valid standard codes are used. (Total Codes: 1288) | | | | | | |
| CUR14 | 373 | Date | X | DT | 8/8 | Used |
| Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | | | |
| CUR15 | 337 | Time | X | TM | 4/8 | Used |
| 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) | | | | | | |
| CUR16 | 374 | Date/Time Qualifier | X | ID | 3/3 | Used |
| Description: Code specifying type of date or time, or both date and time All valid standard codes are used. (Total Codes: 1288) | | | | | | |
| CUR17 | 373 | Date | X | DT | 8/8 | Used |
| Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | | | |
| CUR18 | 337 | Time | X | TM | 4/8 | Used |
| 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) | | | | | | |
| CUR19 | 374 | Date/Time Qualifier | X | ID | 3/3 | Used |
| Description: Code specifying type of date or time, or both date and time All valid standard codes are used. (Total Codes: 1288) | | | | | | |
| CUR20 | 373 | Date | X | DT | 8/8 | Used |
| Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | | | |
| CUR21 | 337 | Time | X | TM | 4/8 | Used |
| 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) | | | | | | |

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. C1110 - If CUR11 is present, then CUR10 is required.
5. C1210 - If CUR12 is present, then CUR10 is required.
6. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. C1413 - If CUR14 is present, then CUR13 is required.
8. C1513 - If CUR15 is present, then CUR13 is required.
9. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. C1716 - If CUR17 is present, then CUR16 is required.
11. C1816 - If CUR18 is present, then CUR16 is required.
12. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. C2019 - If CUR20 is present, then CUR19 is required.

14. C2119 - If CUR21 is present, then CUR19 is required.

Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

L11 Business Instructions and Reference Number

| | |
|-------------------|-------------|
| Pos: 2600 | Max: >1 |
| Detail - Optional | |
| Loop: 2300 | Elements: 5 |

User Option (Usage): Future

Purpose: To specify instructions in this business relationship or a reference 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> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| L1101 | 127 | Reference Identification | X | AN | 1/80 | Used |
| | | Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | |
| L1102 | 128 | Reference Identification Qualifier | X | ID | 2/3 | Used |
| | | Description: Code qualifying the Reference Identification All valid standard codes are used. (Total Codes: 1754) | | | | |
| L1103 | 352 | Description | X | AN | 1/80 | Used |
| | | Description: A free-form description to clarify the related data elements and their content | | | | |
| L1104 | 373 | Date | O | DT | 8/8 | Used |
| | | Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | |
| L1105 | 1073 | Yes/No Condition or Response Code | O | ID | 1/1 | Used |
| | | Description: Code indicating a Yes or No condition or response All valid standard codes are used. (Total Codes: 4) | | | | |

Syntax Rules:

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

Semantics:

1. L1104 contains data relating to the qualifier cited in L1102.
2. L1105 indicates if the reference numbers included in this transmission were transmitted to the carrier in electronic format or key entered by the carrier. A "Y" indicates the carrier utilized the electronic shipper supplied reference information to create this document. A "N" indicates the carrier key entered the reference information from a shipper supplied document.

Loop Lading Detail

| | |
|------------|---------------|
| Pos: 3700 | Repeat: >1 |
| Optional | |
| Loop: 2370 | Elements: N/A |

User Option (Usage): Used

Purpose: To transmit detailed lading data pertinent to a pickup or delivery

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Reg</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|--|------------|----------------|---------------|---------------|
| 3700 | LAD | Lading Detail | O | 1 | | Used |
| 3800 | PO4 | Item Physical Details | O | 1 | | Used |
| 3900 | G69 | Line Item Detail - Description | O | 99 | | Used |
| 4000 | AT5 | Bill of Lading Handling Requirements | O | 6 | | Used |
| 4100 | AMT | Monetary Amount Information | O | 1 | | Future |
| 4200 | CUR | Currency | O | 1 | | Future |
| 4300 | L11 | Business Instructions and Reference Number | O | >1 | | Used |
| 4400 | PER | Administrative Communications Contact | O | 1 | | Unused |
| 4500 | | Loop 2375 | O | | 99 | Used |

LAD Lading Detail

| | |
|--------------------------|---------------------|
| Pos: 3700 | Max: 1 |
| Detail - Optional | |
| Loop: 2370 | Elements: 14 |

User Option (Usage): Used

Purpose: To transmit detailed lading data pertinent to a pickup or delivery

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> |
|------------|-----------|----------------------------|------------|-------------|----------------|--------------|
| LAD01 | 211 | Packaging Form Code | X | ID | 3/3 | Used |

Description: Code for packaging form of the lading quantity

Packaged Units

| Code | Meaning |
|------|--|
| | |
| BAG | Bag |
| BAL | Bale |
| BBL | Barrel |
| BOX | Box |
| CAS | Case |
| CBY | Carboy |
| CLD | Car Load, Rail |
| CNT | Container |
| COL | Coil |
| CRT | Crate |
| CTN | Carton |
| CYL | Cylinder |
| DRM | Drum |
| PCS | Pieces |
| PKG | Package |
| PLT | Pallet |
| ROL | Roll |
| SAK | Sack |
| SKD | Skid |
| SLP | Slip Sheet |
| SPL | Spool |
| TBE | Tube |
| TBN | Tote Bin |
| TLD | Intermodal Trailer/Container Load (Rail) |
| TNK | Tank |
| UNT | Unit |
| | |

Bulk Units

| Code | Meaning |
|------|---------------|
| | |
| BLK | Bulk |
| DBK | Bulk – Dry |
| LBK | Bulk – Liquid |
| | |

Undefined Units

| Code | Meaning |
|------|---------|
| | |

| | |
|-----|---|
| | |
| PCK | Packed (not otherwise specified or unknown) |
| | |

If separate containerized, palletized and cartonized (or equivalent) lading unit counts are being sent, categorize the lading unit counts as follows

| |
|---------------------|
| Containerized Units |
|---------------------|

| Code | Meaning |
|------|--|
| | |
| CLD | Car Load, Rail |
| CNT | Container |
| TLD | Intermodal Trailer/Container Load (Rail) |
| TNK | Tank |
| | |

| |
|------------------|
| Palletized Units |
|------------------|

| Code | Meaning |
|------|------------|
| | |
| PLT | Pallet |
| SKD | Skid |
| SLP | Slip Sheet |
| | |

| |
|----------------------------------|
| Cartonized (or equivalent) Units |
|----------------------------------|

| Code | Meaning |
|------|----------|
| | |
| BAG | Bag |
| BAL | Bale |
| BBL | Barrel |
| BOX | Box |
| CAS | Case |
| CBY | Carboy |
| COL | Coil |
| CRT | Crate |
| CTN | Carton |
| CYL | Cylinder |
| DRM | Drum |
| PCS | Pieces |
| PKG | Package |
| ROL | Roll |
| SAK | Sack |
| SPL | Spool |
| TBE | Tube |
| TBN | Tote Bin |
| UNT | Unit |
| | |

| | | | | | | |
|-------|-----|--|---|----|-----|--------|
| LAD02 | 80 | Lading Quantity | X | N0 | 1/7 | Used |
| | | Description: Number of units (pieces) of the lading commodity | | | | |
| LAD03 | 188 | Weight Unit Code | X | ID | 1/1 | Unused |
| | | Description: Code specifying the weight unit | | | | |
| | | All valid standard codes are used. (Total Codes: 8) | | | | |

LAD04 395 **Unit Weight** X R 1/8 **Unused**

Description: Numeric value of weight per unit

LAD05 188 **Weight Unit Code** X ID 1/1 **Used**

Description: Code specifying the weight unit

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |
| K | Kilograms | | |
| L | Pounds | | |
| | | | |

LAD06 81 **Weight** X R 1/10 **Used**

Description: Numeric value of weight

LAD07 235 **Product/Service ID Qualifier** X ID 2/2 **Used**

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

| Code | Description | Usage | Format |
|------|---------------------------------|-------|--------|
| | | | |
| UP | UCC/EAN/GS1 UPC-12 (12 digits) | | |
| EN | UCC/EAN/GS1 EAN-13 (13 digits) | | |
| UK | UCC/EAN/GS1 GTIN-14 (14 digits) | | |
| | | | |

LAD08 234 **Product/Service ID** X AN 1/48 **Used**

Description: Identifying number for a product or service

LAD09 235 **Product/Service ID Qualifier** X ID 2/2 **Used**

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

| Code | Description | Usage | Format |
|------|----------------|-------|--------|
| | | | |
| CG | Commodity Code | | |
| | | | |

LAD10 234 **Product/Service ID** X AN 1/48 **Used**

Description: Identifying number for a product or service

| |
|--|
| Rail – Standard Transportation Commodity Code (STCC) Commercial Code Rail – Standard Transportation Commodity Code (STCC) Hazardous Code Motor – National Motor Freight Classification (NMFC) Article Number Motor – National Motor Freight Classification (NMFC) Classification Air – International Air Transport Association (IATA) Commodity Code Ocean – Federal Maritime Commission (FMC) Commodity Description Code |
|--|

LAD11 235 **Product/Service ID Qualifier** X ID 2/2 **Used**

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |

| | | | |
|----|------------------------|--|--|
| CH | Country Of Origin Code | | |
| | | | |

| | | | | | | |
|-------|-----|--------------------|---|----|------|------|
| LAD12 | 234 | Product/Service ID | X | AN | 1/48 | Used |
|-------|-----|--------------------|---|----|------|------|

Description: Identifying number for a product or service

ISO-3166-1 Country Codes (Country 2 characters)

| | | | | | | |
|-------|----|--------------------|---|----|------|------|
| LAD13 | 79 | Lading Description | O | AN | 1/50 | Used |
|-------|----|--------------------|---|----|------|------|

Description: Description of an item as required for rating and billing purposes

| | | | | | | |
|-------|-----|--------------|---|---|-----|--------|
| LAD14 | 148 | Lading Value | O | R | 2/9 | Future |
|-------|-----|--------------|---|---|-----|--------|

Description: Value of shipment for export, expressed in the standard monetary denomination for the currency specified

Syntax Rules:

1. P0102 - If either LAD01 or LAD02 is present, then the other is required.
2. P0304 - If either LAD03 or LAD04 is present, then the other is required.
3. P0506 - If either LAD05 or LAD06 is present, then the other is required.
4. P0708 - If either LAD07 or LAD08 is present, then the other is required.
5. P0910 - If either LAD09 or LAD10 is present, then the other is required.
6. P1112 - If either LAD11 or LAD12 is present, then the other is required.

PO4 Item Physical Details

Pos: 3800 Max: 1
Detail - Optional
Loop: 2370 Elements: 18

User Option (Usage): Used

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|--------------|-----|------|---------|-------|
| PO401 | 356 | Pack | O | N0 | 1/6 | Used |

Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container

| | | | | | | |
|-------|-----|------|---|---|-----|------|
| PO402 | 357 | Size | X | R | 1/8 | Used |
|-------|-----|------|---|---|-----|------|

Description: Size of supplier units in pack

| | | | | | | |
|-------|-----|------------------------------------|---|----|-----|------|
| PO403 | 355 | Unit or Basis for Measurement Code | X | 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

| Code | Meaning |
|------|------------------|
| BA | Bale |
| BG | Bag |
| BR | Barrel |
| BX | Box |
| C4 | Carload |
| CA | Case |
| CB | Carboy |
| CF | Cubic Feet |
| CH | Container |
| CL | Cylinder |
| CP | Crate |
| CR | Cubic Meter |
| CT | Carton |
| CX | Coil |
| DR | Drum |
| EA | Each |
| FT | Feet |
| GA | Gallon |
| KG | Kilogram |
| LB | Pound |
| LT | Liter |
| MR | Meter |
| PC | Piece |
| PK | Package |
| PL | Pallet/Unit Load |
| RL | Roll |
| S9 | Slip Sheet |
| SJ | Sack |
| SO | Spool |
| SV | Skid |
| TB | Tube |
| TC | Truckload |
| TE | Tote |

| | | | | | | |
|-------|-----|----------------|---|----|-----|------|
| PO404 | 103 | Packaging Code | X | AN | 3/5 | Used |
|-------|-----|----------------|---|----|-----|------|

Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required

| Packaged Units | |
|----------------|--|
| Code | Meaning |
| | |
| BAG | Bag |
| BAL | Bale |
| BBL | Barrel |
| BOX | Box |
| CAS | Case |
| CBY | Carboy |
| CLD | Car Load, Rail |
| CNT | Container |
| COL | Coil |
| CRT | Crate |
| CTN | Carton |
| CYL | Cylinder |
| DRM | Drum |
| PCS | Pieces |
| PKG | Package |
| PLT | Pallet |
| ROL | Roll |
| SAK | Sack |
| SKD | Skid |
| SLP | Slip Sheet |
| SPL | Spool |
| TBE | Tube |
| TBN | Tote Bin |
| TLD | Intermodal Trailer/Container Load (Rail) |
| TNK | Tank |
| UNT | Unit |
| | |

| Bulk Units | |
|------------|---------------|
| Code | Meaning |
| | |
| BLK | Bulk |
| DBK | Bulk – Dry |
| LBK | Bulk – Liquid |
| | |

| Undefined Units | |
|-----------------|---|
| Code | Meaning |
| | |
| PCK | Packed (not otherwise specified or unknown) |
| | |

If separate containerized, palletized and cartonized (or equivalent) lading unit counts are being sent, categorize the lading unit counts as follows

| Containerized Units |
|---------------------|
|---------------------|

| Code | Meaning |
|------|--|
| | |
| CLD | Car Load, Rail |
| CNT | Container |
| TLD | Intermodal Trailer/Container Load (Rail) |
| TNK | Tank |
| | |

| |
|------------------|
| Palletized Units |
|------------------|

| Code | Meaning |
|------|------------|
| | |
| PLT | Pallet |
| SKD | Skid |
| SLP | Slip Sheet |
| | |

| |
|----------------------------------|
| Cartonized (or equivalent) Units |
|----------------------------------|

| Code | Meaning |
|------|----------|
| | |
| BAG | Bag |
| BAL | Bale |
| BBL | Barrel |
| BOX | Box |
| CAS | Case |
| CBY | Carboy |
| COL | Coil |
| CRT | Crate |
| CTN | Carton |
| CYL | Cylinder |
| DRM | Drum |
| PCS | Pieces |
| PKG | Package |
| ROL | Roll |
| SAK | Sack |
| SPL | Spool |
| TBE | Tube |
| TBN | Tote Bin |
| UNT | Unit |
| | |

PO405 187 **Weight Qualifier** O ID 1/2 Used

Description: Code defining the type of weight

| Code | Meaning |
|-----------|---------------------------|
| | |
| G | Gross Weight |
| A1 | Dimensional Weight |
| | |

PO406 384 **Gross Weight per Pack** X R 1/9 Used

Description: Numeric value of gross weight per pack

PO407 355 **Unit or Basis for Measurement Code** X 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

| Code | Meaning |
|------|----------|
| KG | Kilogram |
| LB | Pound |
| | |

PO408 385 **Gross Volume per Pack** X R 1/9 Used

Description: Numeric value of gross volume per pack

PO409 355 **Unit or Basis for Measurement Code** X 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

| Code | Meaning |
|------|-------------------|
| CF | Cubic Feet |
| CI | Cubic Inches |
| CR | Cubic Meters |
| CC | Cubic Centimeters |
| GA | Gallons |
| LT | Liters |
| | |

PO410 82 **Length** X R 1/8 Used

Description: Largest horizontal dimension of an object measured when the object is in the upright position

PO411 189 **Width** X R 1/8 Used

Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position

PO412 65 **Height** X R 1/8 Used

Description: Vertical dimension of an object measured when the object is in the upright position

PO413 355 **Unit or Basis for Measurement Code** X 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

| Code | Meaning |
|------|-------------|
| FT | Feet |
| IN | Inches |
| MR | Meters |
| CM | Centimeters |
| | |

PO414 810 **Inner Pack** O N0 1/6 Used

Description: The number of eaches per inner container

PO415 752 **Surface/Layer/Position Code** O ID 2/2 **Future**

Description: Code indicating the product surface, layer or position that is being described
All valid standard codes are used. (Total Codes: 109)

PO416 350 **Assigned Identification** X AN 1/20 **Future**

| | | | | | | |
|-------|------|---|---|----|------|---------------|
| | | Description: Alphanumeric characters assigned for differentiation within a transaction set | | | | |
| PO417 | 350 | Assigned Identification | O | AN | 1/20 | Future |
| | | Description: Alphanumeric characters assigned for differentiation within a transaction set | | | | |
| PO418 | 1470 | Number | O | N0 | 1/9 | Future |
| | | Description: A generic number | | | | |

Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. P0607 - If either PO406 or PO407 is present, then the other is required.
4. P0809 - If either PO408 or PO409 is present, then the other is required.
5. C1013 - If PO410 is present, then PO413 is required.
6. C1113 - If PO411 is present, then PO413 is required.
7. C1213 - If PO412 is present, then PO413 is required.
8. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. C1716 - If PO417 is present, then PO416 is required.
10. C1804 - If PO418 is present, then PO404 is required.

Semantics:

1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3. PO417 is the ending package identifier in a range of identifiers.
4. PO418 is the number of packages in this layer.

Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

G69 Line Item Detail - Description

| | |
|-------------------|-------------|
| Pos: 3900 | Max: 99 |
| Detail - Optional | |
| Loop: 2370 | Elements: 1 |

User Option (Usage): Used

Purpose: To describe an item in free-form format

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> |
|------------|-----------|-----------------------|------------|-------------|----------------|--------------|
| G6901 | 369 | Free-form Description | M | AN | 1/45 | Must use |

Description: Free-form descriptive text

AT5 Bill of Lading Handling Requirements

| | |
|-------------------|-------------|
| Pos: 4000 | Max: 6 |
| Detail - Optional | |
| Loop: 2370 | Elements: 6 |

User Option (Usage): Used

Purpose: To identify Bill of Lading handling and service 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> |
|--|-----------|---|------------|-------------|----------------|---------------|
| AT501 | 152 | Special Handling Code | X | ID | 2/3 | Future |
| Description: Code specifying special transportation handling instructions All valid standard codes are used. (Total Codes: 573) | | | | | | |
| AT502 | 560 | Special Services Code | X | ID | 2/10 | Future |
| Description: Code identifying the special service All valid standard codes are used. (Total Codes: 172) | | | | | | |
| AT503 | 153 | Special Handling Description | X | AN | 2/30 | Future |
| Description: Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate | | | | | | |
| AT504 | 355 | Unit or Basis for Measurement Code | X | 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 | | | | | | |

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| CE | Celsius | | |
| FA | Fahrenheit | | |
| | | | |

| | | | | | | |
|---------------------------------|-----|--------------------|---|---|-----|-------------|
| AT505 | 408 | Temperature | X | R | 1/4 | Used |
| Description: Temperature | | | | | | |
| AT506 | 408 | Temperature | X | R | 1/4 | Used |
| Description: Temperature | | | | | | |

Syntax Rules:

1. E0103 - Only one of AT501 or AT503 may be present.
2. E0203 - Only one of AT502 or AT503 may be present.
3. L040506 - If AT504 is present, then at least one of AT505 or AT506 is required.
4. C0504 - If AT505 is present, then AT504 is required.
5. C0604 - If AT506 is present, then AT504 is required.

Semantics:

1. AT505 is the minimum temperature.
2. AT506 is the maximum temperature.

AMT Monetary Amount Information

| | |
|-------------------|-------------|
| Pos: 4100 | Max: 1 |
| Detail - Optional | |
| Loop: 2370 | Elements: 3 |

User Option (Usage): Future

Purpose: To indicate the total monetary amount

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> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| AMT01 | 522 | Amount Qualifier Code | M | ID | 1/3 | Must use |
| | | Description: Code to qualify amount All valid standard codes are used. (Total Codes: 1770) | | | | |
| AMT02 | 782 | Monetary Amount | M | R | 1/18 | Must use |
| | | Description: Monetary amount | | | | |
| AMT03 | 478 | Credit/Debit Flag Code | O | ID | 1/1 | Used |
| | | Description: Code indicating whether amount is a credit or debit All valid standard codes are used. (Total Codes: 2) | | | | |

CUR Currency

| | |
|--------------------------|---------------------|
| Pos: 4200 | Max: 1 |
| Detail - Optional | |
| Loop: 2370 | Elements: 21 |

User Option (Usage): Future
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

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> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| CUR01 | 98 | Entity Identifier Code | M | ID | 2/3 | Must use |
| | | Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes are used. (Total Codes: 1504) | | | | |
| CUR02 | 100 | Currency Code | M | ID | 3/3 | Must use |
| | | Description: Code (Standard ISO) for country in whose currency the charges are specified | | | | |
| CUR03 | 280 | Exchange Rate | O | R | 4/10 | Used |
| | | Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another | | | | |
| CUR04 | 98 | Entity Identifier Code | O | ID | 2/3 | Used |
| | | Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes are used. (Total Codes: 1504) | | | | |
| CUR05 | 100 | Currency Code | O | ID | 3/3 | Used |
| | | Description: Code (Standard ISO) for country in whose currency the charges are specified | | | | |
| CUR06 | 669 | Currency Market/Exchange Code | O | ID | 3/3 | Used |
| | | Description: Code identifying the market upon which the currency exchange rate is based All valid standard codes are used. (Total Codes: 6) | | | | |
| CUR07 | 374 | Date/Time Qualifier | X | ID | 3/3 | Used |
| | | Description: Code specifying type of date or time, or both date and time All valid standard codes are used. (Total Codes: 1288) | | | | |
| CUR08 | 373 | Date | O | DT | 8/8 | Used |
| | | Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | |
| CUR09 | 337 | Time | O | TM | 4/8 | Used |
| | | 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) | | | | |
| CUR10 | 374 | Date/Time Qualifier | X | ID | 3/3 | Used |
| | | Description: Code specifying type of date or time, or both date and time All valid standard codes are used. (Total Codes: 1288) | | | | |
| CUR11 | 373 | Date | X | DT | 8/8 | Used |
| | | Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | |
| CUR12 | 337 | Time | X | TM | 4/8 | Used |
| | | 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) | | | | | | |
| CUR13 | 374 | Date/Time Qualifier | X | ID | 3/3 | Used |
| Description: Code specifying type of date or time, or both date and time All valid standard codes are used. (Total Codes: 1288) | | | | | | |
| CUR14 | 373 | Date | X | DT | 8/8 | Used |
| Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | | | |
| CUR15 | 337 | Time | X | TM | 4/8 | Used |
| 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) | | | | | | |
| CUR16 | 374 | Date/Time Qualifier | X | ID | 3/3 | Used |
| Description: Code specifying type of date or time, or both date and time All valid standard codes are used. (Total Codes: 1288) | | | | | | |
| CUR17 | 373 | Date | X | DT | 8/8 | Used |
| Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | | | |
| CUR18 | 337 | Time | X | TM | 4/8 | Used |
| 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) | | | | | | |
| CUR19 | 374 | Date/Time Qualifier | X | ID | 3/3 | Used |
| Description: Code specifying type of date or time, or both date and time All valid standard codes are used. (Total Codes: 1288) | | | | | | |
| CUR20 | 373 | Date | X | DT | 8/8 | Used |
| Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | | | |
| CUR21 | 337 | Time | X | TM | 4/8 | Used |
| 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) | | | | | | |

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. C1110 - If CUR11 is present, then CUR10 is required.
5. C1210 - If CUR12 is present, then CUR10 is required.
6. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. C1413 - If CUR14 is present, then CUR13 is required.
8. C1513 - If CUR15 is present, then CUR13 is required.
9. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. C1716 - If CUR17 is present, then CUR16 is required.
11. C1816 - If CUR18 is present, then CUR16 is required.
12. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. C2019 - If CUR20 is present, then CUR19 is required.

14. C2119 - If CUR21 is present, then CUR19 is required.

Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

L11 Business Instructions and Reference Number

Pos: 4300 Max: >1
Detail - Optional
Loop: 2370 Elements: 5

User Option (Usage): Used

Purpose: To specify instructions in this business relationship or a reference number

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|--------------------------|-----|------|---------|-------|
| L1101 | 127 | Reference Identification | X | AN | 1/80 | Used |

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

| | | | | | | |
|-------|-----|------------------------------------|---|----|-----|------|
| L1102 | 128 | Reference Identification Qualifier | X | ID | 2/3 | Used |
|-------|-----|------------------------------------|---|----|-----|------|

Description: Code qualifying the Reference Identification

| Code | Description | Usage | Format |
|------|---|-------|--------|
| OZ | Client Product Number | | |
| L9 | Client Customer Product Number | | |
| VP | Client Vendor Product Number | | |
| LI | Client Sales/Transfer/Purchase Order Line Number | | |
| IX | Client Delivery (Release) Order Line Number | | |
| CO | Client Customer Purchase Order | | |
| BV | Client Customer Purchase Order Line Number | | |
| VN | Client Vendor Sales Order | | |
| RZ | Client Purchase Order Vendor Return Authorization | | |
| P7 | Client Vendor Sales Order Line Number | | |
| MR | Client Inventory Type/Status | | |
| 91 | Client Inventory Category | | |
| PG | Client Inventory Allocation | | |
| UN | Hazardous Materials/Goods UN Classification | | |
| NA | Hazardous Materials/Goods NA Classification | | |
| JY | Harmonized Code (Origin (Ship From)) | | |
| LY | Harmonized Code (Destination (Ship To)) | | |
| EP | Exportation Permit Number (US ECCN) | | |
| SE | Product Serial Number | | |
| LT | Product Lot/Batch Number | | |
| CA | Freight Cost Allocation | | |
| KD | Special Instructions | | |

02/18/2010 – Added Freight Cost Allocation code CA

| | | | | | | |
|-------|-----|-------------|---|----|------|------|
| L1103 | 352 | Description | X | AN | 1/80 | Used |
|-------|-----|-------------|---|----|------|------|

Description: A free-form description to clarify the related data elements and their content

| Code | Description | Usage | Format |
|------|---|-------|--------|
| MR | Client Inventory Type/Status Description | | |
| UN | Hazardous Materials/Goods UN Classification Description | | |
| NA | Hazardous Materials/Goods NA Classification Description | | |
| JY | Harmonized Code (Origin (Ship From)) Description | | |

| LY | Harmonized Code (Destination (Ship To)) | | |
|----|---|--|--|
| | Description | | |

| | | | | | | |
|-------|------|--|---|----|-----|---------------|
| L1104 | 373 | Date | O | DT | 8/8 | Future |
| | | Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | |
| L1105 | 1073 | Yes/No Condition or Response Code | O | ID | 1/1 | Unused |
| | | Description: Code indicating a Yes or No condition or response | | | | |
| | | All valid standard codes are used. (Total Codes: 4) | | | | |

Syntax Rules:

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

Semantics:

1. L1104 contains data relating to the qualifier cited in L1102.
2. L1105 indicates if the reference numbers included in this transmission were transmitted to the carrier in electronic format or key entered by the carrier. A "Y" indicates the carrier utilized the electronic shipper supplied reference information to create this document. A "N" indicates the carrier key entered the reference information from a shipper supplied document.

Loop Contact

Pos: 4500 Repeat: 99
Optional
Loop: 2375 Elements: N/A

User Option (Usage): Used

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

Loop Summary:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Reg</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Usage</u> |
|------------|-----------|---|------------|----------------|---------------|--------------|
| 4500 | G61 | Contact | O | 1 | | Used |
| 4600 | L11 | Business Instructions and Reference Number | O | 5 | | Future |
| 4700 | LH6 | Hazardous Certification | O | 6 | | Future |
| 4800 | | Loop 2378 | O | | 25 | Used |

Hazardous Materials

G61 Contact

| | |
|--------------------------|--------------------|
| Pos: 4500 | Max: 1 |
| Detail - Optional | |
| Loop: 2375 | Elements: 5 |

User Option (Usage): Used

Purpose: To identify a person or office to whom 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> |
|------------|-----------|------------------------------|------------|-------------|----------------|--------------|
| G6101 | 366 | Contact Function Code | M | ID | 2/2 | Must use |

Description: Code identifying the major duty or responsibility of the person or group named

| Code | Description | Usage | Format |
|------|-----------------------------|-------|--------|
| | | | |
| HM | Hazardous Materials contact | | |
| | | | |

| | | | | | | |
|-------|----|-------------|---|----|------|----------|
| G6102 | 93 | Name | M | AN | 1/60 | Must use |
|-------|----|-------------|---|----|------|----------|

Description: Free-form name

| | | | | | | |
|-------|-----|---------------------------------------|---|----|-----|------|
| G6103 | 365 | Communication Number Qualifier | X | ID | 2/2 | Used |
|-------|-----|---------------------------------------|---|----|-----|------|

Description: Code identifying the type of communication number

| Code | Description | Usage | Format |
|------|------------------------|-------|--------|
| | | | |
| TE | Voice Telephone Number | | |
| | | | |

| | | | | | | |
|-------|-----|-----------------------------|---|----|-------|------|
| G6104 | 364 | Communication Number | X | AN | 1/256 | Used |
|-------|-----|-----------------------------|---|----|-------|------|

Description: Complete communications number including country or area code when applicable

| | | | | | | |
|-------|-----|----------------------------------|---|----|------|--------|
| G6105 | 443 | Contact Inquiry Reference | O | AN | 1/20 | Unused |
|-------|-----|----------------------------------|---|----|------|--------|

Description: Additional reference number or description to clarify a contact number

Syntax Rules:

1. P0304 - If either G6103 or G6104 is present, then the other is required.

Comments:

1. G6103 qualifies G6104.

L11 Business Instructions and Reference Number

| | |
|-------------------|-------------|
| Pos: 4600 | Max: 5 |
| Detail - Optional | |
| Loop: 2375 | Elements: 5 |

User Option (Usage): Future

Purpose: To specify instructions in this business relationship or a reference 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> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| L1101 | 127 | Reference Identification | X | AN | 1/80 | Used |
| | | Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | |
| L1102 | 128 | Reference Identification Qualifier | X | ID | 2/3 | Used |
| | | Description: Code qualifying the Reference Identification All valid standard codes are used. (Total Codes: 1754) | | | | |
| L1103 | 352 | Description | X | AN | 1/80 | Used |
| | | Description: A free-form description to clarify the related data elements and their content | | | | |
| L1104 | 373 | Date | O | DT | 8/8 | Used |
| | | Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | | | | |
| L1105 | 1073 | Yes/No Condition or Response Code | O | ID | 1/1 | Used |
| | | Description: Code indicating a Yes or No condition or response All valid standard codes are used. (Total Codes: 4) | | | | |

Syntax Rules:

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

Semantics:

1. L1104 contains data relating to the qualifier cited in L1102.
2. L1105 indicates if the reference numbers included in this transmission were transmitted to the carrier in electronic format or key entered by the carrier. A "Y" indicates the carrier utilized the electronic shipper supplied reference information to create this document. A "N" indicates the carrier key entered the reference information from a shipper supplied document.

LH6 Hazardous Certification

| | |
|-------------------|-------------|
| Pos: 4700 | Max: 6 |
| Detail - Optional | |
| Loop: 2375 | Elements: 4 |

User Option (Usage): Future

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

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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| LH601 | 93 | Name | O | AN | 1/60 | Used |
| | | Description: Free-form name | | | | |
| LH602 | 272 | Hazardous Certification Code | X | ID | 1/1 | Used |
| | | Description: Code indicating the form of the hazardous certification | | | | |
| | | All valid standard codes are used. (Total Codes: 2) | | | | |
| LH603 | 273 | Hazardous Certification Declaration | X | AN | 1/25 | Used |
| | | Description: Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations | | | | |
| LH604 | 273 | Hazardous Certification Declaration | O | AN | 1/25 | Used |
| | | Description: Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations | | | | |

Syntax Rules:

1. P0203 - If either LH602 or LH603 is present, then the other is required.

Loop Hazardous Identification Information

Pos: 4800 Repeat: 25
 Optional
 Loop: 2378 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> |
|------------|-----------|--|------------|----------------|---------------|---------------|
| 4800 | LH1 | Hazardous Identification Information | O | 1 | | Used |
| 4900 | LH2 | Hazardous Classification Information | O | 4 | | Used |
| 5000 | LH3 | Hazardous Material Shipping Name Information | O | 10 | | Used |
| 5100 | LFH | Free-form Hazardous Material Information | O | 20 | | Used |
| 5200 | LEP | EPA Required Data | O | 3 | | Unused |
| 5300 | LH4 | Canadian Dangerous Requirements | O | 1 | | Unused |
| 5400 | LHT | Transborder Hazardous Requirements | O | 3 | | Unused |

LH1 Hazardous Identification Information

Pos: 4800 Max: 1
Detail - Optional
Loop: 2378 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 | Unit or Basis for Measurement Code | M | ID | 2/2 | Must use |

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| Code | Meaning |
|------|------------------|
| BA | Bale |
| BG | Bag |
| BR | Barrel |
| BX | Box |
| C4 | Carload |
| CA | Case |
| CB | Carboy |
| CF | Cubic Feet |
| CH | Container |
| CL | Cylinder |
| CP | Crate |
| CR | Cubic Meter |
| CT | Carton |
| CX | Coil |
| DR | Drum |
| EA | Each |
| FT | Feet |
| GA | Gallon |
| KG | Kilogram |
| LB | Pound |
| LT | Liter |
| MR | Meter |
| PC | Piece |
| PK | Package |
| PL | Pallet/Unit Load |
| RL | Roll |
| S9 | Slip Sheet |
| SJ | Sack |
| SO | Spool |
| SV | Skid |
| TB | Tube |
| TC | Truckload |
| TE | Tote |

| | | | | | | |
|-------|----|-----------------|---|----|-----|----------|
| LH102 | 80 | Lading Quantity | M | N0 | 1/7 | Must use |
|-------|----|-----------------|---|----|-----|----------|

Description: Number of units (pieces) of the lading commodity

| | | | | | | |
|-------|-----|---------------------------|---|----|-----|------|
| LH103 | 277 | UN/NA Identification Code | O | ID | 6/6 | Used |
|-------|-----|---------------------------|---|----|-----|------|

Description: Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America

| | | | | | | |
|--|-----|---|---|----|------|---------------|
| LH104 | 200 | Hazardous Materials Page | O | AN | 1/6 | Unused |
| Description: The United Nations page number as required for the international transport of hazardous materials | | | | | | |
| LH105 | 22 | Commodity Code | O | AN | 1/30 | Unused |
| Description: Code describing a commodity or group of commodities | | | | | | |
| LH106 | 355 | Unit or Basis for Measurement Code | O | 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 | | | | | | |

| Code | Meaning |
|------|------------------|
| BA | Bale |
| BG | Bag |
| BR | Barrel |
| BX | Box |
| C4 | Carload |
| CA | Case |
| CB | Carboy |
| CF | Cubic Feet |
| CH | Container |
| CL | Cylinder |
| CP | Crate |
| CR | Cubic Meter |
| CT | Carton |
| CX | Coil |
| DR | Drum |
| EA | Each |
| FT | Feet |
| GA | Gallon |
| KG | Kilogram |
| LB | Pound |
| LT | Liter |
| MR | Meter |
| PC | Piece |
| PK | Package |
| PL | Pallet/Unit Load |
| RL | Roll |
| S9 | Slip Sheet |
| SJ | Sack |
| SO | Spool |
| SV | Skid |
| TB | Tube |
| TC | Truckload |
| TE | Tote |

| | | | | | | |
|--|-----|-------------------------------|---|----|------|---------------|
| LH107 | 380 | Quantity | O | R | 1/15 | Used |
| Description: Numeric value of quantity | | | | | | |
| LH108 | 595 | Compartment ID Code | O | ID | 1/1 | Future |
| Description: Code identifying the compartment in a compartmentalized tank car All valid standard codes are used. (Total Codes: 6) | | | | | | |
| LH109 | 665 | Residue Indicator Code | O | ID | 1/1 | Unused |
| 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. (Total Codes: 3) | | | | | | |

| | | | | | | |
|-------|------|---|---|----|------|---------------|
| LH110 | 254 | Packing Group Code | O | ID | 1/3 | Used |
| | | Description: Code indicating degree of danger in terms of Roman number I, II or III | | | | |
| LH111 | 1375 | Interim Hazardous Material Regulatory Number | O | AN | 1/5 | Unused |
| | | Description: Identifies the current regulatory version number used for hazardous materials shipments | | | | |
| LH112 | 1271 | Industry Code | O | AN | 1/30 | Future |
| | | Description: 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: 4900 Max: 4
Detail - Optional
Loop: 2378 Elements: 13

User Option (Usage): Used

Purpose: To specify the hazardous notation and endorsement information

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|--------------------------|-----|------|---------|-------|
| LH201 | 215 | Hazardous Classification | O | ID | 1/30 | Used |

Description: The hazardous classification corresponding to the shipping name of the hazardous commodity

| | | | | | | |
|-------|-----|---------------------------|---|----|-----|------|
| LH202 | 983 | Hazardous Class Qualifier | O | ID | 1/1 | Used |
|-------|-----|---------------------------|---|----|-----|------|

Description: Code qualifying hazardous class

| Code | Description | Usage | Format |
|------|----------------|-------|--------|
| P | Primary Code | | |
| S | Secondary Code | | |
| | Tertiary Code | | |
| | | | |

| | | | | | | |
|-------|-----|----------------------------|---|----|-------|--------|
| LH203 | 218 | Hazardous Placard Notation | O | ID | 14/40 | Future |
|-------|-----|----------------------------|---|----|-------|--------|

Description: The placard notation corresponding to the hazard class of the hazardous commodity

| | | | | | | |
|-------|-----|-----------------------|---|----|------|--------|
| LH204 | 222 | Hazardous Endorsement | O | ID | 4/25 | Future |
|-------|-----|-----------------------|---|----|------|--------|

Description: The placard endorsement that is to be shown on the shipping papers for the hazardous commodity

| | | | | | | |
|-------|-----|--------------------------|---|----|-----|------|
| LH205 | 759 | Reportable Quantity Code | O | ID | 2/2 | Used |
|-------|-----|--------------------------|---|----|-----|------|

Description: Code to identify presence of hazardous substance

| Code | Description | Usage | Format |
|------|---------------------|-------|--------|
| RQ | Reportable Quantity | | |
| | | | |

| | | | | | | |
|-------|-----|------------------------------------|---|----|-----|--------|
| LH206 | 355 | Unit or Basis for Measurement Code | X | ID | 2/2 | Future |
|-------|-----|------------------------------------|---|----|-----|--------|

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. (Total Codes: 884)

| | | | | | | |
|-------|-----|-------------|---|---|-----|--------|
| LH207 | 408 | Temperature | X | R | 1/4 | Future |
|-------|-----|-------------|---|---|-----|--------|

Description: Temperature

| | | | | | | |
|-------|-----|------------------------------------|---|----|-----|--------|
| LH208 | 355 | Unit or Basis for Measurement Code | X | ID | 2/2 | Future |
|-------|-----|------------------------------------|---|----|-----|--------|

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. (Total Codes: 884)

| | | | | | | |
|-------|-----|-------------|---|---|-----|--------|
| LH209 | 408 | Temperature | X | R | 1/4 | Future |
|-------|-----|-------------|---|---|-----|--------|

Description: Temperature

| | | | | | | |
|-------|-----|--|---|----|------|---------------|
| LH210 | 355 | Unit or Basis for Measurement Code | X | ID | 2/2 | Future |
| | | 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. (Total Codes: 884) | | | | |
| LH211 | 408 | Temperature | X | R | 1/4 | Future |
| | | Description: Temperature | | | | |
| LH212 | 188 | Weight Unit Code | X | ID | 1/1 | Future |
| | | Description: Code specifying the weight unit All valid standard codes are used. (Total Codes: 8) | | | | |
| LH213 | 267 | Net Explosive Quantity | X | NO | 1/10 | Future |
| | | 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: 5000 | Max: 10 |
| Detail - Optional | |
| Loop: 2378 | Elements: 4 |

User Option (Usage): Used

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

Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|----------------------------------|-----|------|---------|-------|
| LH301 | 224 | Hazardous Material Shipping Name | X | AN | 1/25 | 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

| |
|---|
| Segment LH3 can appear 1 to 10 times (25 x 10 = 250 characters) |
|---|

| | | | | | | |
|-------|-----|--|---|----|-----|------|
| LH302 | 984 | Hazardous Material Shipping Name Qualifier | X | ID | 1/1 | Used |
|-------|-----|--|---|----|-----|------|

Description: Qualifier indicating the source (regulatory) of the proper shipping name

| Code | Description | Usage | Format |
|------|-----------------------------|-------|--------|
| | | | |
| D | Domestic Shipping Name | | |
| I | International Shipping Name | | |
| | | | |

| | | | | | | |
|-------|-----|-----------------------|---|----|-----|------|
| LH303 | 985 | N.O.S. Indicator Code | O | 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

| Code | Description | Usage | Format |
|------|--|-------|--------|
| | | | |
| NOS | Not Otherwise Specified Requirements Apply | | |
| | | | |

| | | | | | | |
|-------|------|-----------------------------------|---|----|-----|--------|
| LH304 | 1073 | Yes/No Condition or Response Code | O | ID | 1/1 | Unused |
|-------|------|-----------------------------------|---|----|-----|--------|

Description: Code indicating a Yes or No condition or response

All valid standard codes are used. (Total Codes: 4)

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: 5100 | Max: 20 |
| Detail - Optional | |
| Loop: 2378 | 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 | Id | Element Name | Req | Type | Min/Max | Usage |
|-------|-----|---|-----|------|---------|----------|
| LFH01 | 808 | Hazardous Material Shipment Information Qualifier | M | ID | 3/3 | 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

| Code | Description | Usage | Format |
|------|----------------|-------|--------|
| | | | |
| TEC | Technical Name | | |
| | | | |

| | | | | | | |
|-------|-----|---|---|----|------|----------|
| LFH02 | 809 | Hazardous Material Shipment Information | M | AN | 1/25 | Must use |
|-------|-----|---|---|----|------|----------|

Description: Specific information required by law for hazardous material shipments

Segment LFH can appear 1 to 5 times ((25 + 25) x 5 = 250 characters) for name 1

Segment LFH can appear 1 to 5 times ((25 + 25) x 5 = 250 characters) for name 2

Segment LFH can appear 1 to 5 times ((25 + 25) x 5 = 250 characters) for name 3

| | | | | | | |
|-------|-----|---|---|----|------|------|
| LFH03 | 809 | Hazardous Material Shipment Information | O | AN | 1/25 | Used |
|-------|-----|---|---|----|------|------|

Description: Specific information required by law for hazardous material shipments

| | | | | | | |
|-------|------|------------------|---|----|-----|------|
| LFH04 | 1023 | Hazard Zone Code | O | ID | 1/1 | Used |
|-------|------|------------------|---|----|-----|------|

Description: Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone

| Code | Description | Usage | Format |
|------|-------------|-------|--------|
| | | | |
| A | Zone A | | |
| B | Zone B | | |
| C | Zone C | | |
| D | Zone D | | |
| | | | |

| | | | | | | |
|-------|-----|------------------------------------|---|----|-----|--------|
| LFH05 | 355 | Unit or Basis for Measurement Code | X | ID | 2/2 | Unused |
|-------|-----|------------------------------------|---|----|-----|--------|

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. (Total Codes: 884)

| | | | | | | |
|-------|-----|----------|---|---|------|--------|
| LFH06 | 380 | Quantity | X | R | 1/15 | Unused |
|-------|-----|----------|---|---|------|--------|

Description: Numeric value of quantity

| | | | | | | |
|-------|-----|--|---|----|------|---------------|
| LFH07 | 380 | Quantity | O | R | 1/15 | Unused |
| | | Description: Numeric value of quantity | | | | |
| LFH08 | 373 | Date | O | DT | 8/8 | Unused |
| | | Description: 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.

L3 Total Weight and Charges

| | |
|---------------------|--------------|
| Pos: 0100 | Max: 1 |
| Summary - Mandatory | |
| Loop: N/A | Elements: 15 |

User Option (Usage): Must use

Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

L3 segment is not actually used but is required

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> |
|------------|-----------|--|------------|-------------|----------------|---------------|
| L301 | 81 | Weight | X | R | 1/10 | Unused |
| | | Description: Numeric value of weight | | | | |
| L302 | 187 | Weight Qualifier | X | ID | 1/2 | Unused |
| | | Description: Code defining the type of weight All valid standard codes are used. (Total Codes: 52) | | | | |
| L303 | 60 | Freight Rate | X | R | 1/9 | Unused |
| | | Description: Rate that applies to the specific commodity | | | | |
| L304 | 122 | Rate/Value Qualifier | X | ID | 2/2 | Unused |
| | | Description: Code qualifying how to extend charges or interpret value All valid standard codes are used. (Total Codes: 180) | | | | |
| L305 | 58 | Amount Charged | O | N2 | 1/15 | Unused |
| | | Description: For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified | | | | |
| L306 | 191 | Advances | O | N2 | 1/9 | Unused |
| | | Description: Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified | | | | |
| L307 | 117 | Prepaid Amount | O | N2 | 1/15 | Unused |
| | | Description: Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified | | | | |
| L308 | 150 | Special Charge or Allowance Code | O | ID | 3/3 | Unused |
| | | Description: Code identifying type of special charge or allowance All valid standard codes are used. (Total Codes: 1114) | | | | |
| L309 | 183 | Volume | X | R | 1/8 | Unused |
| | | Description: Value of volumetric measure | | | | |
| L310 | 184 | Volume Unit Qualifier | X | ID | 1/1 | Unused |
| | | Description: Code identifying the volume unit All valid standard codes are used. (Total Codes: 16) | | | | |
| L311 | 80 | Lading Quantity | O | N0 | 1/7 | Unused |
| | | Description: Number of units (pieces) of the lading commodity | | | | |
| L312 | 188 | Weight Unit Code | O | ID | 1/1 | Unused |
| | | Description: Code specifying the weight unit All valid standard codes are used. (Total Codes: 8) | | | | |
| L313 | 171 | Tariff Number | O | AN | 1/7 | Unused |

Description: Standard tariff number for the tariff which governs the rates applied to the commodity item(s)

| | | | | | | |
|------|----|-----------------------|---|----|------|---------------|
| L314 | 74 | Declared Value | X | N2 | 2/12 | Unused |
|------|----|-----------------------|---|----|------|---------------|

Description: Monetary assigned value expressed in the standard monetary denomination for the currency specified

| | | | | | | |
|------|-----|-----------------------------|---|----|-----|---------------|
| L315 | 122 | Rate/Value Qualifier | X | ID | 2/2 | Unused |
|------|-----|-----------------------------|---|----|-----|---------------|

Description: Code qualifying how to extend charges or interpret value
All valid standard codes are used. (Total Codes: 180)

Syntax Rules:

1. P0102 - If either L301 or L302 is present, then the other is required.
2. P0304 - If either L303 or L304 is present, then the other is required.
3. P0910 - If either L309 or L310 is present, then the other is required.
4. C1201 - If L312 is present, then L301 is required.
5. P1415 - If either L314 or L315 is present, then the other is required.

Semantics:

1. L305 is the total charges.

SE Transaction Set Trailer

| | |
|---------------------|-------------|
| Pos: 0200 | Max: 1 |
| Summary - 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 | Number of Included Segments | M | NO | 1/10 | Must use |
| Description: Total number of segments included in a transaction set including ST and SE segments | | | | | | |
| SE02 | 329 | Transaction Set Control Number | M | AN | 4/9 | Must use |
| Description: 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.

GE Functional Group Trailer

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

User Option (Usage): Must use

Purpose: To indicate the end of a functional group and to provide control 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> |
|--|-----------|--|------------|-------------|----------------|--------------|
| GE01 | 97 | Number of Transaction Sets Included | M | N0 | 1/6 | Must use |
| Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element | | | | | | |
| GE02 | 28 | Group Control Number | M | N0 | 1/9 | Must use |
| Description: Assigned number originated and maintained by the sender | | | | | | |

Semantics:

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

Comments:

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

IEA Interchange Control Trailer

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

User Option (Usage): Must use

Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control 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> |
|---|-----------|--------------------------------------|------------|-------------|----------------|--------------|
| IEA01 | I16 | Number of Included Functional Groups | M | N0 | 1/5 | Must use |
| Description: A count of the number of functional groups included in an interchange | | | | | | |
| IEA02 | I12 | Interchange Control Number | M | N0 | 9/9 | Must use |
| Description: A control number assigned by the interchange sender | | | | | | |