

830**Planning Schedule with Release Capability****Functional Group=PS**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Planning Schedule with Release Capability Transaction Set (830) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business practice relative to the transfer of forecasting/material release information between organizations. The planning schedule transaction may be used in various ways or in a combination of ways, such as: (1) a simple forecast; (2) a forecast with the buyer's authorization for the seller to commit to resources, such as labor or material; (3) a forecast that is also used as an order release mechanism, containing such elements as resource authorizations, period-to-date cumulative quantities, and specific ship/delivery patterns for requirements that have been represented in "buckets," such as weekly, monthly, or quarterly. The order release forecast may also contain all data related to purchase orders, as required, because the order release capability eliminates the need for discrete generation of purchase orders.

Notes:

- 2/410 At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop. These two loops are mutually exclusive.
 3/010 Number of line items (CTT01) is the accumulation of the number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (FST01) for each FST segment.

User:

This transaction set represents Nominations, Nomination Notices and Schedules. There is one header area per transaction set. The detail area of the transaction set consists of sequentially numbered line items. Each line item details the movement of a crude/product batch. Each transaction set may send 10,000 line items.

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>
010	ST	Transaction Set Header	M	1			Req
020	BFR	Beginning Segment for Planning Schedule	M	1			Req
150	MEA	Measurements	O	40			Used
LOOP ID - N1					200		
230	N1	Name	O	1			Req
240	N2	Additional Name Information	O	2			Used
250	N3	Address Information	O	2			Used
260	N4	Geographic Location	O	1			Used
270	REF	Reference Identification	O	12			Used
280	PER	Administrative Communications Contact	O	3			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 - LIN					≥1		
010	LIN	Item Identification	M	1			Req
020	UIT	Unit Detail	O	1			Used
060	PO3	Additional Item Detail	O	25			Used
090	MEA	Measurements	O	40			Used
140	REF	Reference Identification	O	12			Used
LOOP ID - N1					200		
320	N1	Name	O	1			Req
330	N2	Additional Name Information	O	2			Used
340	N3	Address Information	O	2			Used

350	N4	Geographic Location	O	1	Used
LOOP ID - FST					
≥1					
410	FST	Forecast Schedule	O	1	N2/410 Req
LOOP ID - SHP					
25					
470	SHP	Shipped/Received Information	O	1	Used

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>
010	CTT	Transaction Totals	O	1		N3/010	Used
020	SE	Transaction Set Trailer	M	1			Req

ST Transaction Set Header

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

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

Semantics:

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

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 Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Req				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>830</td> <td>Planning Schedule with Release Capability</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	830	Planning Schedule with Release Capability				
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830	Planning Schedule with Release Capability									
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Req				
		User: <i>The control number assigned by the sender. It is sequentially assigned within each functional group. Sequential numbering aids in error recovery and research. ST02 must be the same as SE02.</i>								

BFR Beginning Segment for Planning Schedule

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 7

To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates

Syntax:

R0203 -- At least one of BFR02 or BFR03 is required.

Semantics:

1. If BFR01 contains the value "04" (Net Change), BFR09 is required.
2. BFR02 is the identifying number for a forecast assigned by the orderer/purchaser.
3. BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins.
4. BFR07 is the forecast horizon end date: The date when the forecast horizon (envelope) ends.
5. BFR08 is the date forecast generated: The date the forecast data was generated.
6. BFR09 is the date forecast updated: The date the forecast was updated with "net change" data. (Used only when data element 353 in BFR01 contains the value "04", meaning net change.)

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>														
BFR01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	M	ID	2/2	Req														
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Original Description: Original Nomination - Shipper to Pipeline</td> </tr> <tr> <td>04</td> <td>Change Description: Change - Shipper to Pipeline</td> </tr> <tr> <td>06</td> <td>Confirmation Description: Nomination Confirmation - Third Party to Pipeline</td> </tr> <tr> <td>14</td> <td>Advance Notification Description: Schedule - Pipeline to Shipper</td> </tr> <tr> <td>16</td> <td>Proposed Description: Nomination Notice - Pipeline to Third Party</td> </tr> <tr> <td>21</td> <td>Transaction on Hold Description: Proration Notice - Pipeline to Shipper</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	00	Original Description: Original Nomination - Shipper to Pipeline	04	Change Description: Change - Shipper to Pipeline	06	Confirmation Description: Nomination Confirmation - Third Party to Pipeline	14	Advance Notification Description: Schedule - Pipeline to Shipper	16	Proposed Description: Nomination Notice - Pipeline to Third Party	21	Transaction on Hold Description: Proration Notice - Pipeline to Shipper				
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16	Proposed Description: Nomination Notice - Pipeline to Third Party																			
21	Transaction on Hold Description: Proration Notice - Pipeline to Shipper																			
BFR02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Req														
BFR04	675	Schedule Type Qualifier Description: Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast	M	ID	2/2	Req														
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>DL</td> <td>Delivery Based Description: Schedules</td> </tr> <tr> <td>SH</td> <td>Shipment Based Description: Original Nominations and Schedules</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	DL	Delivery Based Description: Schedules	SH	Shipment Based Description: Original Nominations and Schedules												
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SH	Shipment Based Description: Original Nominations and Schedules																			
BFR05	676	Schedule Quantity Qualifier Description: Code identifying the type of quantities used when defining a	M	ID	1/1	Req														

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
		schedule or forecast								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Actual Discrete Quantities</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	A	Actual Discrete Quantities				
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A	Actual Discrete Quantities									
BFR06	373	Date Description: Date expressed as CCYYMMDD User: For example, January 1, 1999 would be expressed as 19990101. Use this data field to relay the Nomination, Nomination Notice or Schedule start date.	M	DT	8/8	Req				
BFR07	373	Date Description: Date expressed as CCYYMMDD User: For example, January 1, 1999 would be expressed as 19990101. Use this data field to relay the Nomination, Nomination Notice or Schedule end date.	O	DT	8/8	Used				
BFR08	373	Date Description: Date expressed as CCYYMMDD User: For example, January 1, 1999 would be expressed as 19990101. Use this data field to relay the Nomination, Nomination Notice or Schedule issue date.	M	DT	8/8	Req				

MEA Measurements

Pos: 150	Max: 40
Heading - Optional	
Loop: N/A	Elements: 3

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

Syntax:

- R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.
- C0504 -- If MEA05 is present, then MEA04 is required
- C0604 -- If MEA06 is present, then MEA04 is required
- L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
- E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

- 1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

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.

User:

This MEA segment is used to inform carriers of a shipper's total in transit volume.

It is also used to handle shipments on Trans Alaska Pipeline System (TAPS).

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>
MEA02	738	Measurement Qualifier Description: Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Used
		<u>Code</u> <u>Name</u>				
		SQ \bar{S} hipped Quantity Description: Total In-transit Volume				
MEA03	739	Measurement Value Description: The value of the measurement	C	R	1/20	Used
		User: <i>Quantity In-transit</i>				
MEA04	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Used
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Req
		<u>Code</u> <u>Name</u>				
		B1 \bar{B} arrels per Day				

N1

Name

Pos: 230	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

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

Syntax:

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

Comments:

- 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.
- N105 and N106 further define the type of entity in N101.

User:

PIPENET allows for two iterations of the N1 loop. They are the originating party of the document and the receiving party of the document.

The preferred method for sending the name is to use the N103 and N104 data elements. If the name is sent in the N103 and N104, do not send N102. However, if the name is sent as alpha-numeric in N102, do not send N103 and N104.

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 Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Req																				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CA</td> <td>Carrier</td> </tr> <tr> <td>FR</td> <td>Message From</td> </tr> <tr> <td></td> <td>Description: Use of this code value is required by PIPENET.</td> </tr> <tr> <td>TO</td> <td>Message To</td> </tr> <tr> <td></td> <td>Description: Use of this code value is required by PIPENET.</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CA	Carrier	FR	Message From		Description: Use of this code value is required by PIPENET.	TO	Message To		Description: Use of this code value is required by PIPENET.												
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N102	93	Name Description: Free-form name	C	AN	1/60	Used																				
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used																				
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		Please note that an ASC X12 data maintenance item is pending for the addition of this code value. It is expected to be published in ASC X12 Version/Subrelease 4021.				
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/80	Used

N2**Additional Name Information**

Pos: 240	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

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

User:

Do not send use this segment if the entity has been identified by using N103 and N104.

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 Description: Free-form name	M	AN	1/60	Req
N202	93	Name Description: Free-form name	O	AN	1/60	Used

N3**Address Information**

Pos: 250	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

To specify the location of the named party

User:

Do not send use this segment if the entity has been identified by using N103 and N104.

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 Description: Address information	M	AN	1/55	Req
N302	166	Address Information Description: Address information	O	AN	1/55	Used

N4

Geographic Location

Pos: 260	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

To specify the geographic place of the named party

Syntax:

C0605 -- If N406 is present, then N405 is required

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

User:

Do not send use this segment if the entity has been identified by using N103 and N104.

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 Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency User: <i>Refer to API Bulletin D12A and Code Source 22 in the Appendix.</i>	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) User: <i>Refer to API Bulletin D12A and Code Source 22 in the Appendix.</i> <i>If N404 is used, then the use of N401 - N403 is required.</i>	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Used

REF Reference Identification

Pos: 270	Max: 12
Heading - Optional	
Loop: N1	Elements: 3

To specify identifying information

Syntax:

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

Semantics:

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

User:

This REF segment is used only when BFR01 equals "14" - Advance Notification.

It is also used to specify a carrier defined pipeline number. If a carrier generates schedules for multiple lines, then use this segment to transmit the line number assigned to the schedule sent in the transaction set.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Req				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>P6</td> <td>Pipeline Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	P6	Pipeline Number				
<u>Code</u>	<u>Name</u>									
P6	Pipeline Number									
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Rec				
REF03	352	Description Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	Not rec				

PER Administrative Communications Contact

Pos: 280	Max: 3
Heading - Optional	
Loop: N1	Elements: 8

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

Syntax:

1. PER03 P0304 -- If either PER03 or PER04 are present, then the others are required.
2. PER05 P0506 -- If either PER05 or PER06 are present, then the others are required.
3. PER07 P0708 -- If either PER07 or PER08 are present, then the others are 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>																				
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named	M	ID	2/2	Req																				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>AD</td><td>Accounting Department</td></tr> <tr><td>CN</td><td>General Contact</td></tr> <tr><td>DC</td><td>Delivery Contact</td></tr> <tr><td>NT</td><td>Notification Contact</td></tr> <tr><td>RE</td><td>Receiving Contact</td></tr> <tr><td>SC</td><td>Schedule Contact</td></tr> <tr><td>SH</td><td>Shipper Contact</td></tr> <tr><td>SU</td><td>Supplier Contact</td></tr> <tr><td>WH</td><td>Warehouse</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	AD	Accounting Department	CN	General Contact	DC	Delivery Contact	NT	Notification Contact	RE	Receiving Contact	SC	Schedule Contact	SH	Shipper Contact	SU	Supplier Contact	WH	Warehouse				
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PER02	93	Name Description: Free-form name	O	AN	1/60	Used																				
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number	C	ID	2/2	Used																				
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EM	Electronic Mail																									
FX	Facsimile																									
TE	Telephone																									
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Used																				
PER05	365	Communication Number Qualifier Description: Code identifying the type of communication number User: See PER03 for applicable code values.	C	ID	2/2	Used																				
		All valid X12 codes are used.																								
PER06	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Used																				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER07	365	Communication Number Qualifier Description: Code identifying the type of communication number User: <i>See PER03 for applicable code values.</i> All valid X12 codes are used.	C	ID	2/2	Used
PER08	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Used

LIN

Item Identification

Pos: 010	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 11

To specify basic item identification data

Syntax:

- P0405 -- If either LIN04 or LIN05 are present, then the others are required.
- P0607 -- If either LIN06 or LIN07 are present, then the others are required.
- P0809 -- If either LIN08 or LIN09 are present, then the others are required.
- P1011 -- If either LIN10 or LIN11 are present, then the others are required.
- P1213 -- If either LIN12 or LIN13 are present, then the others are required.
- P1415 -- If either LIN14 or LIN15 are present, then the others are required.
- P1617 -- If either LIN16 or LIN17 are present, then the others are required.
- P1819 -- If either LIN18 or LIN19 are present, then the others are required.
- P2021 -- If either LIN20 or LIN21 are present, then the others are required.
- P2223 -- If either LIN22 or LIN23 are present, then the others are required.
- P2425 -- If either LIN24 or LIN25 are present, then the others are required.
- P2627 -- If either LIN26 or LIN27 are present, then the others are required.
- P2829 -- If either LIN28 or LIN29 are present, then the others are required.
- P3031 -- If either LIN30 or LIN31 are present, then the others are required.

Semantics:

1. LIN01 is the line item identification

Comments:

1. See the Data Dictionary for a complete list of IDs.
2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

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>						
LIN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used						
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M	ID	2/2	Req						
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CG</td> <td>Commodity Grouping Description: A data maintenance item is pending for the addition of a code value to denote "Transport 4 Commodity Code". Use the code value "CG" until the data maintenance item is approved by the ASC X12 standards-setting body.</td> </tr> <tr> <td>PQ</td> <td>Product ID Attribute Code</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CG	Commodity Grouping Description: A data maintenance item is pending for the addition of a code value to denote "Transport 4 Commodity Code". Use the code value "CG" until the data maintenance item is approved by the ASC X12 standards-setting body.	PQ	Product ID Attribute Code				
<u>Code</u>	<u>Name</u>											
CG	Commodity Grouping Description: A data maintenance item is pending for the addition of a code value to denote "Transport 4 Commodity Code". Use the code value "CG" until the data maintenance item is approved by the ASC X12 standards-setting body.											
PQ	Product ID Attribute Code											
LIN03	234	Product/Service ID Description: Identifying number for a product or service	M	AN	1/48	Req						
		User: C Crude P Product N Natural Gas Liquids										

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Req								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>TP</td> <td>Product Type Code</td> </tr> </tbody> </table> Description: Use of this code value is required by PIPENET	<u>Code</u>	<u>Name</u>	TP	Product Type Code								
<u>Code</u>	<u>Name</u>													
TP	Product Type Code													
LIN05	234	Product/Service ID Description: Identifying number for a product or service User: <i>Refer to the Appendix for API Product Code List.</i>	C	AN	1/48	Req								
LIN06	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Used								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GN</td> <td>Grade Name</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	GN	Grade Name								
<u>Code</u>	<u>Name</u>													
GN	Grade Name													
LIN07	234	Product/Service ID Description: Identifying number for a product or service User: <i>Grade description</i>	C	AN	1/48	Used								
LIN08	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Used								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GC</td> <td>Grade Code</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	GC	Grade Code								
<u>Code</u>	<u>Name</u>													
GC	Grade Code													
LIN09	234	Product/Service ID Description: Identifying number for a product or service User: <i>Batch Identification Number</i>	C	AN	1/48	Used								
LIN10	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Used								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>MO</td> <td>Movement Type Code</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	MO	Movement Type Code								
<u>Code</u>	<u>Name</u>													
MO	Movement Type Code													
LIN11	234	Product/Service ID Description: Identifying number for a product or service User: <i>Use the following PIPENET Assigned Code Values:</i>	C	AN	1/48	Used								
		<table border="1"> <tbody> <tr> <td>IN</td> <td>Interstate with No In-transit Stopover</td> </tr> <tr> <td>IT</td> <td>Intrastate with No In-transit Stopover</td> </tr> <tr> <td>IS</td> <td>Interstate with In-transit Stopover</td> </tr> <tr> <td>IA</td> <td>Intrastate with In-transit Stopover</td> </tr> </tbody> </table>	IN	Interstate with No In-transit Stopover	IT	Intrastate with No In-transit Stopover	IS	Interstate with In-transit Stopover	IA	Intrastate with In-transit Stopover				
IN	Interstate with No In-transit Stopover													
IT	Intrastate with No In-transit Stopover													
IS	Interstate with In-transit Stopover													
IA	Intrastate with In-transit Stopover													

UIT

Unit Detail

Pos: 020	Max: 1
Detail - Optional	
Loop: LIN	Elements: 1

To specify item unit data

Syntax:

C0302 -- If UIT03 is present, then UIT02 is required

User:

Use this segment to specify volume unit of measure.

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>
UIT01	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	M	Comp		Req
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Req

<u>Code</u>	<u>Name</u>
B1	Barrels per Day
BR	Barrel
CO	Cubic Meters (Net)
GD	Gross Barrels
GN	Gross Gallons
KG	Kilogram
ND	Net Barrels
NG	Net Gallons
PG	Pounds Gross
PN	Pounds Net
PU	Mass Pounds

PO3 Additional Item Detail

Pos: 060	Max: 25
Detail - Optional	
Loop: LIN	Elements: 4

To specify additional item-related data involving variations in normal price/quantity structure

Syntax:

L040305 -- If PO304 is present, then at least one of PO303 or PO305 is required.

Comments:

1. Some examples of price/quantity variations are: price in different units from the PO1 segment, price changes by date, or price changes by quantity (break and level).
2. PO307 defines the unit of measure for PO306.

User:

Use this segment to indicate the line where the imbalance should be applied if it occurs.

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>										
PO301	371	Change Reason Code Description: Code specifying the reason for price or quantity change	M	ID	2/2	Req										
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BB</td> <td>Balancing Quantity</td> </tr> <tr> <td>EV</td> <td>Estimated Quantity</td> </tr> <tr> <td>PS</td> <td>Product/Services ID Change</td> </tr> <tr> <td>UM</td> <td>Unit of Measure Difference</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BB	Balancing Quantity	EV	Estimated Quantity	PS	Product/Services ID Change	UM	Unit of Measure Difference				
<u>Code</u>	<u>Name</u>															
BB	Balancing Quantity															
EV	Estimated Quantity															
PS	Product/Services ID Change															
UM	Unit of Measure Difference															
PO306	380	Quantity Description: Numeric value of quantity User: When BFR equals "00", populate this data field with "100". When BFR equals "14", populate this data field with the true quantity.	M	R	1/15	Req										
PO307	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken User: When BFR01 = "14", refer to UIT01 for the recommended code values.	M	ID	2/2	Req										
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>Percent</td> </tr> </tbody> </table> Description: Use this code value when BFR01 equals "00".	<u>Code</u>	<u>Name</u>	P1	Percent										
<u>Code</u>	<u>Name</u>															
P1	Percent															
PO308	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Not rec										

MEA Measurements

Pos: 090	Max: 40
Detail - Optional	
Loop: LIN	Elements: 4

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

Syntax:

- R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.
- C0504 -- If MEA05 is present, then MEA04 is required
- C0604 -- If MEA06 is present, then MEA04 is required
- L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
- E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

- 1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

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.

User:

This segment is to be used ONLY if the grade code does not adequately define specific actions needed.

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>								
MEA02	738	Measurement Qualifier Description: Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Used								
		<table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td>ZO</td> <td>Oxygen</td> </tr> <tr> <td>RVP</td> <td>Reid Vapor Pressure</td> </tr> <tr> <td>ZBZ</td> <td>Benzene</td> </tr> </table>	<u>Code</u>	<u>Name</u>	ZO	Oxygen	RVP	Reid Vapor Pressure	ZBZ	Benzene				
<u>Code</u>	<u>Name</u>													
ZO	Oxygen													
RVP	Reid Vapor Pressure													
ZBZ	Benzene													
MEA04	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Used								
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Req								
		<table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td>PS</td> <td>Pounds per Sq. Inch</td> </tr> <tr> <td>VP</td> <td>Percent Volume</td> </tr> </table>	<u>Code</u>	<u>Name</u>	PS	Pounds per Sq. Inch	VP	Percent Volume						
<u>Code</u>	<u>Name</u>													
PS	Pounds per Sq. Inch													
VP	Percent Volume													
MEA05	740	Range Minimum Description: The value specifying the minimum of the measurement range	C	R	1/20	Used								
MEA06	741	Range Maximum Description: The value specifying the maximum of the measurement	C	R	1/20	Used								

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
------------	-----------	---------------------	------------	-------------	----------------	--------------

range

REF Reference Identification

Pos: 140	Max: 12
Detail - Optional	
Loop: LIN	Elements: 3

To specify identifying information

Syntax:

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

Semantics:

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

User:

This segment is to be used to specify the inventory type or tank 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>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Req

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
-------------	-------------

- | | |
|----|---|
| IX | Item Number
Description: Nomination Notice |
| LI | Line Item Identifier (Seller's)
Description: Comment |
| N0 | Nomination Number
Description: Shipper-assigned Reference |
| NO | No OT5 Authority-zero Mileage Rate |
| SR | Sales Responsibility
Description: Shipper Reference |
| TG | Transportation Control Number (TCN)
Description: For PIPENET, this is the equivalent of the cycle number. |
| TK | Tank Number |
| VA | Vessel Agent Number |
| WS | Warehouse storage location number
Description: Nomination |

REF02	127	Reference Identification	C	AN	1/30	Used
-------	-----	--------------------------	---	----	------	------

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

User: When REF01 equals "IX", use the following PIPENET values:

- TL Trunkline
- GA Gathered
- TR Truck
- TF Transfer
- BA Barge
- 0001 Colonial Pipeline Code
- 0002 Colonial Pipeline Code
- 0003 Colonial Pipeline Code

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
------------	-----------	---------------------	------------	-------------	----------------	--------------

When REF01 equals "LI", this data element is not used.

When REF01 equals "TK", this data element is contains the actual tank number.

When REF01 equals "WS", use the following PIPENET values:

TL Trunkline

GA Gathered

TR Truck

TF Transfer

BA Barge

REF03	352	<p>Description</p> <p>Description: A free-form description to clarify the related data elements and their content</p> <p>User: Use REF03 ONLY when REF01 equals "LI" to send a comment.</p>	C	AN	1/80	Used
--------------	------------	--	----------	-----------	-------------	-------------

N1

Name

Pos: 320	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

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

Syntax:

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

Comments:

- 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.
- N105 and N106 further define the type of entity in N101.

User:

Use this segment to identify the carrier's location of origin.

This segment is required if the line item is an origin point nomination. This N1 is used to declare the origin location for the line item. For PIPENET, the line item must consist of either a Ship From or a Ship To N1 segment. This location is uniquely identified with the volume date and time information sent in the next FST segment. If the schedule line item requires an addition, use the code value "AD" in N101.

The preferred method for sending the name is to use the N103 and N104 data elements. If the name is sent in the N103 and N104, do not send N102. However, if the name is sent as alpha-numeric in N102, do not send N103 and N104.

Each LIN loop requires an N1 loop that contains at least one "SF", "ST" or "TT" value in N101.

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 Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Req																														
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>AD</td> <td>Party to be advised (Written orders)</td> </tr> <tr> <td>CN</td> <td>Consignee</td> </tr> <tr> <td>IK</td> <td>Intermediate Carrier</td> </tr> <tr> <td></td> <td>Description: Connecting Carrier</td> </tr> <tr> <td>SF</td> <td>Ship From</td> </tr> <tr> <td>SH</td> <td>Shipper</td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> <tr> <td>SU</td> <td>Supplier/Manufacturer</td> </tr> <tr> <td></td> <td>Description: Supplier/Refiner</td> </tr> <tr> <td>TR</td> <td>Terminal</td> </tr> <tr> <td>TT</td> <td>Transfer To</td> </tr> <tr> <td>UC</td> <td>Ultimate Consignee</td> </tr> <tr> <td>WF</td> <td>Tank Farm Owner</td> </tr> <tr> <td></td> <td>Description: Tankage Supplier</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	AD	Party to be advised (Written orders)	CN	Consignee	IK	Intermediate Carrier		Description: Connecting Carrier	SF	Ship From	SH	Shipper	ST	Ship To	SU	Supplier/Manufacturer		Description: Supplier/Refiner	TR	Terminal	TT	Transfer To	UC	Ultimate Consignee	WF	Tank Farm Owner		Description: Tankage Supplier				
<u>Code</u>	<u>Name</u>																																			
AD	Party to be advised (Written orders)																																			
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IK	Intermediate Carrier																																			
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SH	Shipper																																			
ST	Ship To																																			
SU	Supplier/Manufacturer																																			
	Description: Supplier/Refiner																																			
TR	Terminal																																			
TT	Transfer To																																			
UC	Ultimate Consignee																																			
WF	Tank Farm Owner																																			
	Description: Tankage Supplier																																			
N102	93	Name Description: Free-form name	C	AN	1/60	Used																														
N103	66	Identification Code Qualifier	C	ID	1/2	Used																														

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
------------	-----------	---------------------	------------	-------------	----------------	--------------

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

User: When N101 equals "SF" or "ST" then acceptable values for N103 are

"20", "30", "ZY" and "ZZ".

When N101 equals "IL", "TT", "CN", "WF", "SH" or "SU", then acceptable code values for N103 are "1" or "9".

<u>Code</u>	<u>Name</u>
-------------	-------------

- | | |
|----|--|
| 1 | D-U-N-S Number,Dun & Bradstreet |
| 9 | D-U-N-S+4,D-U-N-S Number with Four Character Suffix |
| 20 | Standard Point Location Code (SPLC) |
| 30 | American Petroleum Institute Location Code |
| 31 | Bank Identification Code |
| | Description: Number assigned to a bank within a country (non-USA); also called a Bank Sort Code |
| TL | Transport4 Location Code |
| TS | Transport4 Shipper Code |

N104	67	Identification Code	C	AN	2/80	Used
		Description: Code identifying a party or other code				

N2**Additional Name Information**

Pos: 330	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

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

User:

Do not send use this segment if the entity has been identified by using N103 and N104.

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 Description: Free-form name	M	AN	1/60	Req
N202	93	Name Description: Free-form name	O	AN	1/60	Used

N3**Address Information**

Pos: 340	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

To specify the location of the named party

User:

Do not send use this segment if the entity has been identified by using N103 and N104.

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 Description: Address information	M	AN	1/55	Req
N302	166	Address Information Description: Address information	O	AN	1/55	Used

N4**Geographic Location**

Pos: 350	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

To specify the geographic place of the named party

Syntax:

C0605 -- If N406 is present, then N405 is required

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

User:

Do not send use this segment if the entity has been identified by using N103 and N104.

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 Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency User: <i>Refer to API Bulletin D12A and Code Source 22 in the Appendix.</i>	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) User: <i>Refer to API Bulletin D12A and Code Source 22 in the Appendix.</i> <i>If N404 is used, then the use of N401 - N403 is required.</i>	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Used

FST Forecast Schedule

Pos: 410	Max: 1
Detail - Optional	
Loop: FST	Elements: 6

To specify the forecasted dates and quantities

Syntax:

P0607 -- If either FST06 or FST07 are present, then the others are required.

P0809 -- If either FST08 or FST09 are present, then the others are required.

Semantics:

1. If FST03 equals "F" (indicating flexible interval), then FST04 and FST05 are required. FST04 would be used for the start date of the flexible interval and FST05 would be used for the end date of the flexible interval.

Comments:

1. As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecasted bucket (weekly, monthly, quarterly, etc.) or the start date of a flexible interval.
2. FST06 qualifies the time in FST07. The purpose of the FST07 element is to express the specific time of day in a 24-hour clock to satisfy "just-in-time" requirements. As an alternative, the ship/delivery pattern segment (SDP) may be used to define an approximate time, such as a.m. or p.m.

User:

Current standard recommends deletions be shown as a nomination volume of zero and only the new changed volumes be sent.

When BFR01 is not "14", the maximum number of FST loops is two.

Use this segment to transmit quantity and origin as well as delivery 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>									
FST01	380	Quantity Description: Numeric value of quantity User: Use this data field to relay total volume of product/crude for this line item.	M	R	1/15	Req									
FST02	680	Forecast Qualifier Description: Code specifying the sender's confidence level of the forecast data or an action associated with a forecast <table border="0"> <tr> <td></td> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td></td> <td>C</td> <td>Firm Description: Used for volume, when BFR01 equals "04".</td> </tr> <tr> <td></td> <td>D</td> <td>Planning Description: Used for new volume when BFR01 equals "04"</td> </tr> </table>		<u>Code</u>	<u>Name</u>		C	Firm Description: Used for volume, when BFR01 equals "04".		D	Planning Description: Used for new volume when BFR01 equals "04"	M	ID	1/1	Req
	<u>Code</u>	<u>Name</u>													
	C	Firm Description: Used for volume, when BFR01 equals "04".													
	D	Planning Description: Used for new volume when BFR01 equals "04"													
FST03	681	Forecast Timing Qualifier Description: Code specifying interval grouping of the forecast <table border="0"> <tr> <td></td> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td></td> <td>D</td> <td>Discrete</td> </tr> </table>		<u>Code</u>	<u>Name</u>		D	Discrete	M	ID	1/1	Req			
	<u>Code</u>	<u>Name</u>													
	D	Discrete													
FST04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Req									

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
------------	-----------	---------------------	------------	-------------	----------------	--------------

User: For example, January 1, 1999 would be expressed as 19990101.

If dates are not normally sent, use the value in BFR06. Otherwise, use this data field to relay the origin/delivery nomination date.

FST06	374	Date/Time Qualifier	C	ID	3/3	Used
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Description: Code specifying type of date or time, or both date and time

User: Used when a line item is transmitted with the nomination line item.

<u>Code</u>	<u>Name</u>
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042	Superseded
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Description: Used when FST02 equals "C".

067	Current Schedule Delivery
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Description: Used when FST02 equals "D"; meaning current nomination delivery date.

068	Current Schedule Ship
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Description: Used when FST02 equals "D", meaning current nomination origin date.

FST07	337	Time	C	TM	4/8	Used
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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)

User: Used when a time is transmitted with the nomination line item.

SHP Shipped/Received Information

Pos: 470	Max: 1
Detail - Optional	
Loop: SHP	Elements: 3

To specify shipment and/or receipt information

Syntax:

- C0102 -- If SHP01 is present, then SHP02 is required
- L030405 -- If SHP03 is present, then at least one of SHP04 or SHP05 is required.
- C0403 -- If SHP04 is present, then SHP03 is required
- C0503 -- If SHP05 is present, then SHP03 is required

Semantics:

1. SHP04 is the date shipped, delivered, received, or the cumulative quantity start date (as qualified by SHP03).
2. SHP06 is the cumulative quantity end date.

Comments:

1. The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities, dates, and times.
2. If SHP01 equals "02", "07", "08", "09", or "10" (indicating cumulative quantities), then SHP04 and SHP06 are required to identify the start and end dates of the quantity count.

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>				
SHP03	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	C	ID	3/3	Used				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>151</td> <td>Service Period End</td> </tr> </tbody> </table> Description: Closing Date and Time	<u>Code</u>	<u>Name</u>	151	Service Period End				
<u>Code</u>	<u>Name</u>									
151	Service Period End									
SHP04	373	Date Description: Date expressed as CCYYMMDD User: <i>For example, January 1, 1999 would be expressed as 19990101.</i>	C	DT	8/8	Used				
SHP05	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Used				

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

To transmit a hash total for a specific element in the transaction set

Syntax:

P0304 -- If either CTT03 or CTT04 are present, then the others are required.

P0506 -- If either CTT05 or CTT06 are present, then the others are required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

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>
CTT01	354	Number of Line Items	M	N0	1/6	Req
		Description: Total number of line items in the transaction set				
		User: <i>The number of line items (LIN segments) present in the transaction set.</i>				

SE

Transaction Set Trailer

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

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

Comments:

1. SE is the last segment of each 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>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Req
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set User: SE02 must be the same number as ST02.	M	AN	4/9	Req