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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
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:

1. 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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	**143**	**Transaction Set Identifier Code**	**M**	**ID**	**3/3**	**Req**

Description: Code uniquely identifying a Transaction Set

Code	Name
830	Planning Schedule with Release Capability

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST02	**329**	**Transaction Set Control Number**	**M**	**AN**	**4/9**	**Req**

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

User: *Thc 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.*

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BFR01	**353**	**Transaction Set Purpose Code**	**M**	**ID**	**2/2**	**Req**
		Description: Code identifying purpose of transaction set				

	Code	Name
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	

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BFR02	**127**	**Reference Identification**	**C**	**AN**	**1/30**	**Req**
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
BFR04	**675**	**Schedule Type Qualifier**	**M**	**ID**	**2/2**	**Req**
		Description: Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast				

	Code	Name
DL	Delivery Based	
	Description: Schedules	
SH	Shipment Based	
	Description: Original Nominations and Schedules	

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BFR05	**676**	**Schedule Quantity Qualifier**	**M**	**ID**	**1/1**	**Req**

Ref	Id	Element Name	Req	Type
		Min/Max Usage		

schedule or forecast

	Code	**Name**
A	Actual Discrete Quantities	

BFR06	**373**	**Date**	M	DT	8/8	Req

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.*

BFR07	**373**	**Date**	O	DT	8/8	Used

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.*

BFR08	**373**	**Date**	M	DT	8/8	Req

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.*

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA02	738	**Measurement Qualifier** **Description:** Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Used

Code	Name
SQ	Shipped Quantity

Description: Total In-transit Volume

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA03	739	**Measurement Value** **Description:** The value of the measurement	C	R	1/20	Used

User: *Quantity In-transit*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Code	Name
B1	Barrels 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:

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.

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identifier Code	M	ID	2/3	Req

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

Code	Name
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.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	Name	C	AN	1/60	Used

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	Identification Code Qualifier	C	ID	1/2	Used

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

Code	Name
1	D-U-N-S Number,Dun & Bradstreet
9	D-U-N-S+4,D-U-N-S Number with Four Character Suffix

Description: Recommended by PIPENET

22	Council of Petroleum Accounting Societies code (COPAS)
TL	Transport4 Location Code

Description: Refer to Code Source 841 in the Appendix.

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.

TS	Transport4 Shipper Code

Description: Refer to Code Source 841 in the Appendix.

| N104 | 67 | **Identification Code** | | | | |

Description: Code identifying a party or other code

                                         C   AN   2/80   **Used**

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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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	93	**Name** **Description:** Free-form name	M	AN	1/60	Req
N202	93	**Name** **Description:** Free-form name	O	AN	1/60	Used

		Pos: 250	Max: 2
N3	**Address Information**	**Heading - Optional**	
		Loop: N1	**Elements: 2**

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	**166**	**Address Information**	**M**	**AN**	**1/55**	**Req**
		Description: Address information				
N302	**166**	**Address Information**	**O**	**AN**	**1/55**	**Used**
		Description: Address information				

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	**State or Province Code**	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
		User: *Refer to PIDX Bulletin D12A and Code Source 22 in the Appendix.*				
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)				
		User: *Refer to PIDX Bulletin D12A and Code Source 22 in the Appendix.*				
		If N404 is used, then the use of N401 - N403 is required.				
N404	26	**Country Code**	O	ID	2/3	Used
		Description: Code identifying the country				

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:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	Req

Description: Code qualifying the Reference Identification

Code	Name
P6	Pipeline Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	Reference Identification	C	AN	1/30	Rec

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF03	352	Description	C	AN	1/80	Not rec

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

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER01	366	**Contact Function Code**	M	ID	2/2	Req

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

Code	Name
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER02	93	**Name**	O	AN	1/60	Used

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER03	365	**Communication Number Qualifier**	C	ID	2/2	Used

Description: Code identifying the type of communication number

Code	Name
EM	Electronic Mail
FX	Facsimile
TE	Telephone

Description: Recommended by PIPENET

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER04	364	**Communication Number**	C	AN	1/80	Used

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER05	365	**Communication Number Qualifier**	C	ID	2/2	Used

Description: Code identifying the type of communication number

User: *See PER03 for applicable code values.*

All valid X12 codes are used.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER06	364	**Communication Number**	C	AN	1/80	Used

Description: Complete communications number including country or area

code when applicable

Ref		**Id**	**Element Name**		**Req**	**Type**
		Min/Max	**Usage**			

PER07   365   **Communication Number Qualifier**   C   ID   2/2   **Used**

                 Description: Code identifying the type of communication number

                 User: *See PER03 for applicable code values.*

                 All valid X12 codes are used.

PER08   364   **Communication Number**   C   AN   1/80   **Used**

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

LIN   Item Identification

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN01	**350**	**Assigned Identification**	O	AN	1/20	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
LIN02	**235**	**Product/Service ID Qualifier**	M	ID	2/2	Req
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				

	Code	Name
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN03	**234**	**Product/Service ID**	M	AN	1/48	Req
		Description: Identifying number for a product or service				

User: *C   Crude*

P   Product

N   Natural Gas Liquids

LIN04	**235**	**Product/Service ID Qualifier**	C	ID	2/2	**Req**	

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

Code   Name

TP   Product Type Code
      Description: Use of this code value is required by PIPENET

LIN05	**234**	**Product/Service ID**	C	AN	1/48	**Req**	

Description: Identifying number for a product or service

User: *Refer to the Appendix for PIDX Product Code List.*

LIN06	**235**	**Product/Service ID Qualifier**	C	ID	2/2	**Used**	

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

Code   Name

GN   Grade Name

LIN07	**234**	**Product/Service ID**	C	AN	1/48	**Used**	

Description: Identifying number for a product or service

User: *Grade description*

LIN08	**235**	**Product/Service ID Qualifier**	C	ID	2/2	**Used**	

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

Code   Name

GC   Grade Code

LIN09	**234**	**Product/Service ID**	C	AN	1/48	**Used**	

Description: Identifying number for a product or service

User: *Batch Identification Number*

LIN10	**235**	**Product/Service ID Qualifier**	C	ID	2/2	**Used**	

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

Code   Name

MO   Movement Type Code

LIN11	**234**	**Product/Service ID**	C	AN	1/48	**Used**	

Description: Identifying number for a product or service

User: *Use the following PIPENET Assigned Code Values:*

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

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:

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

	Code	Name
	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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO301	**371**	**Change Reason Code**	**M**	**ID**	**2/2**	**Req**

Description: Code specifying the reason for price or quantity change

	Code	Name
BB	Balancing Quantity
EV	Estimated Quantity
PS	Product/Services ID Change
UM	Unit of Measure Difference

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO306	**380**	**Quantity**	**M**	**R**	**1/15**	**Req**

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.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO307	**355**	**Unit or Basis for Measurement Code**	**M**	**ID**	**2/2**	**Req**

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.*

	Code	Name
P1	Percent

Description: Use this code value when BFR01 equals "00".

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO308	**352**	**Description**	**O**	**AN**	**1/80**	**Not rec**

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

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA02	**738**	**Measurement Qualifier**	O	ID	1/3	Used
		Description: Code identifying a specific product or process characteristic to which a measurement applies				

Code	Name
ZO	Oxygen
RVP	Reid Vapor Pressure
ZBZ	Benzene

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA04	**C001**	**Composite Unit of Measure**	C	Comp		Used
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use)				
	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Req
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				

Code	Name
PS	Pounds per Sq. Inch
VP	Percent Volume

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA05	**740**	**Range Minimum**	C	R	1/20	Used
		Description: The value specifying the minimum of the measurement range				
MEA06	**741**	**Range Maximum**				**Description:** The value

Ref **Element** **!kg** **Min/Max** **Usage**

Name

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:

1. 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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	Req

Description: Code qualifying the Reference Identification

Code	Name
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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*

Ref	Id	Element Name	Req	Type
		Min/Max **Usage**		

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

Ref	Id	Element Name				Req	Type
REF03	**352**	**Description**	C	AN	1/80	Used	

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

User: *Use REF03 ONLY when REF01 equals "LI" to send a comment.*

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:

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.

User:

Use this segment to identify the carier'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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	**98**	**Entity Identifier Code**	**M**	**ID**	**2/3**	**Req**

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

Code	Name
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	**93**	**Name**	**C**	**AN**	**1/60**	**Used**

Description: Free-form name

N103	66	**Identification Code Qualifier**	C	ID	1/2	**Used**

Ref	Id	Element Name	Req	Type	Min/Max	Usage

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".

Code	Name
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	PIDX 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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N201	93	**Name**	**M**	**AN**	**1/60**	**Req**
		Description: Free-form name				
N202	93	**Name**	**O**	**AN**	**1/60**	**Used**
		Description: Free-form name				

N3   Address Information

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information**	M	AN	1/55	Req
		Description: Address information				
N302	166	**Address Information**	O	AN	1/55	Used
		Description: Address information				

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	**State or Province Code**	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
		User: *Refer to PIDX Bulletin D12A and Code Source 22 in the Appendix.*				
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)				
		User: *Refer to PIDX Bulletin D12A and Code Source 22 in the Appendix.*				
		If N404 is used, then the use of N401 - N403 is required.				
N404	26	**Country Code**	O	ID	2/3	Used
		Description: Code identifying the country				

			Pos: 410 Max: 1
FST	**Forecast Schedule**		**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 recomments deletions be shown as a nomination volume of zero and only the new changed volumes be sent.

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

Use this segment to transmit quantity and origin as well as delivery dates and times.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FST01	380	**Quantity**	M	R	1/15	Req
		Description: Numeric value of quantity				

User: *Use this data field to relay total volume of product/crude for this line item.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FST02	680	**Forecast Qualifier**	M	ID	1/1	Req

Description: Code specifying the sender's confidence level of the forecast data or an action associated with a forecast

Code	Name
C	Firm

Description: Used for volume, when BFR01 equals "04".

Code	Name
D	Planning

Description: Used for new volume when BFR01equals "04"

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FST03	681	**Forecast Timing Qualifier**	M	ID	1/1	Req

Description: Code specifying interval grouping of the forecast

Code	Name
D	Discrete

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FST04	373	**Date**	M	DT	8/8	Req

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage

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

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.*

Code	Name
042	Superseded

Description: Used when FST02 equals "C".

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

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

FST07	**337**	**Time**	C	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)

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SHP03	374	**Date/Time Qualifier**	C	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time				

                 Code   **Name**

        151   Service Period End
            Description: Closing Date and Time

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SHP04	373	**Date**	C	DT	8/8	Used
		Description: Date expressed as CCYYMMDD				

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SHP05	337	**Time**	C	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)				

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items**	M	N0	1/6	Req
		Description: Total number of line items in the transaction set				
		User: *The number of line items (LIN segments) present in the transaction set.*				

SE Transaction Set Trailer

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	**96**	**Number of Included Segments**	**M**	**N0**	**1/10**	**Req**
		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**	**Req**
		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.*				