



X12 Implementation Guideline - USS Outside Processing

Shipping Notice

Example 856-1, Inbound to Processor (Mill sourced) with Chemistry

X12 856 Format

HEADER AREA

Transaction Set Header

ST*856*0001
Transaction Set Identifier Code (143)
ST01 856 Ship / Notice Manifest
Transaction Set Control Number (329)
ST02 0001

Beginning Segment for Ship Notice

BSN*00*181309*20000125*0001
Transaction Set Purpose Code (353)
BSN01 00 Original '01' Cancel, '05' Replace
Shipment Identification (396)
BSN02 181309 Reference Number - Mill Shipper Number
Date (373)
BSN03 20000125 Transaction Create Date
Time (337)
BSN04 0001 Transaction Create Time



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Date/Time Reference

DTM*011*20000124*1200*ES
Date/Time Qualifier (374)
DTM01 011 Shipped
Date (373)
DTM02 20000124 Activity Date
Time (337)
DTM03 1200 Activity Time
Time Code (623)
DTM04 ES Eastern Standard Time

DETAIL AREA - Shipment Level

Hierarchical Level

HL*1**S*1
Hierarchical ID Number (628)
HL01 1
Hierarchical Level Code (735)
HL03 S Shipment
Hierarchical Child Code (736)
HL04 1

Carrier Details (Quantity & Weight)

TD1*COL52*3***G*192940*LB
Packaging Code (103)
TD101 COL52 Coils LIF52 if cut-to-length
Lading Quantity (80)
TD102 3 3 Coils on load
Weight Qualifier (187)
TD106 G Gross Weight
Weight (81)
TD107 192940 Weight
Unit or Basis for Measurement Code (355)
TD108 LB Pounds

Carrier Details (Routing Sequence/Transit Time) (If Rail)

TD5*S*91*3578*R*EJE NS*CL
Routing Sequence Code (133)
TD501 S Rail Routing
Identification Code Qualifier (66)
TD502 91 Assigned by Seller
Identification Code (67)
TD503 3578 USS Rail Routing Code
Transportation Method/Type Code (91)
TD504 R Rail
Routing (387)
TD505 EJE NS Rail Carrier ID
Shipment/Order Status Code (368)
TD506 CL Complete

Carrier Details (Routing Sequence/Transit Time) (If Truck)

TD5*O*2*FOSL*M*Four Star*CL
Routing Sequence Code (133)
TD501 O Origin Carrier
Identification Code Qualifier (66)
TD502 2 SCAC Code
Identification Code (67)
TD503 FOSL Carriers SCAC Code



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Transportation Method/Type Code (91)
TD504 M Transportation Method - Motor

Routing (387)
TD505 Four Star Carrier's Name

Shipment/Order Status Code (368)
TD506 CL Complete



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Carrier Details (Equipment)

TD3*RR**NS 0167251 (If Rail)
Equipment Description Code (40)
TD301 RR Rail Car
Equipment Number (207)
TD303 NS 0167251 Rail Car #

Carrier Details (Equipment) (If Truck)

TD3*TL**F54
Equipment Description Code (40)
TD301 TL Trailer
Equipment Number (207)
TD303 F54 Trailer Identification

Reference Numbers

REF*MA*181309
REF01 MA Ship Notice / Manifest Number (USS Pre-Assigned Shipper Number.
Unique by USS Plant)
REF02 181309

F.O.B. Related Instructions

FOB*PP
Shipment Method of Payment (146)
FOB01 PP Transportation Liability - 'PP' - Prepaid by Mill or 'PO' -Prepaid

Name

N1*MF**1*005444062
Entity Identifier Code (98)
N101 MF Steel Producer
Identification Code Qualifier (66)
N103 1 DUNs Number
Identification Code (67)
N104 005444062 USS Gary Works

Name

N1*OU**1*101567972
Entity Identifier Code (98)
N101 OU Outside Processor
Identification Code Qualifier (66)
N103 1 DUNs Number
Identification Code (67)
N104 101567972

Name

N1*Sf**1*005444062
Entity Identifier Code (98)
N101 SF Shipped From
Identification Code Qualifier (66)
N103 1 DUNs Number
Identification Code (67)
N104 005444062

Name

N1*ST**1*101567972
Entity Identifier Code (98)
N101 ST Ship To
Identification Code Qualifier (66)
N103 1 DUNs Number



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Example 856-1, Inbound to Processor (Mill sourced) with Chemistry

Identification Code (67)
N104 101567972

DETAIL AREA - Order Level

Hierarchical Level

HL*2*1*O*1
Hierarchical ID Number (628)
HL01 2
Hierarchical Parent ID Number (734)
HL02 1
Hierarchical Level Code (735)
HL03 0 Order
Hierarchical Child Code (736)
HL04 1

Item Detail Identification

LIN**VO*JK66581*VN*015
Product/Service ID Qualifier (235)
LIN02 VO Order Number - Intended Ship (US Steel Mill Order #)
Product/Service ID (234)
LIN03 JK66581
Product/Service ID Qualifier (235)
LIN04 VN Order Item Number - Intended Ship (US Steel Mill Order Item #)
Product/Service ID (234)
LIN05 015

Measurements

MEA*OD*TH*00.0270*ED
Measurement Reference ID Code (737)
MEA01 OD Ordered Dimensions
Measurement Qualifier (738)
MEA02 TH Thickness
Measurement Value (739)
MEA03 00.0270
Unit or Basis for Measurement Code (355)
MEA04 ED or EM Decimal Inches If Metric 'MB' or 'MZ'



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Example 856-1, Inbound to Processor (Mill sourced) with Chemistry

Measurements

MEA*OD*WD*64.5000*ED

Measurement Reference ID Code (737)

MEA01 OD Ordered Dimensions

Measurement Qualifier (738)

MEA02 WD Width

Measurement Value (739)

MEA03 64.5000

Unit or Basis for Measurement Code (355)

MEA04 ED Decimal Inches If Metric 'MB'

Measurements

MEA*OD*LN*48.5000*ED

Measurement Reference ID Code (737)

MEA01 OD Ordered Dimensions

Measurement Qualifier (738)

MEA02 LN Length

Measurement Value (739)

MEA03 48.5000

Unit or Basis for Measurement Code (355)

MEA04 ED Decimal Inches (Cut-to-length) If Metric 'MB'

Reference Numbers

REF*PO*04675662

Reference Number Qualifier (128)

REF01 PO Customer Order Number

Reference Number (127)

REF02 04675662

Reference Numbers

REF*PM*Q964400457

Reference Number Qualifier (128)

REF01 PM Customer Part Number

Reference Number (127)

REF02 Q964400457

Reference Numbers

REF*QP*123456

Reference Number Qualifier (128)

REF01 QP Customer Part Number - Bar Code

Reference Number (127)

REF02 123456

Name

N1*MF**92*93111

Entity Identifier Code (98)

N101 MF Supplier ID

Identification Code Qualifier (66)

N103 92 Assigned by Buyer

Identification Code (67)

N104 93111



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Example 856-1, Inbound to Processor (Mill sourced) with Chemistry

DETAIL AREA - Item Level

Hierarchical Level

HL*3*2*I
Hierarchical ID Number (628)
HL01 3
Hierarchical Parent ID Number (734)
HL02 2
Hierarchical Level Code (735)
HL03 I Item

Item Detail Identification

LIN**SN*W150029*HN*E22022
Product/Service ID Qualifier (235)
LIN02 SN Material Identification - USS
Product/Service ID (234)
LIN03 W150029
Product/Service ID Qualifier (235)
LIN04 HN Heat Number
Product/Service ID (234)
LIN05 E22022

Product/Item Identification

PID*S*MAC*ST*01***67
Item Description Type (349)
PID01 S
Product/Process Characteristic Code (750)
PID02 MAC Material Classification
Agency Qualifier Code (559)
PID03 ST Steel Code tables
Production Description Code (751)
PID04 01 Prime
Source Subqualifier (822)
PID07 67 Steel Table 67

Product/Item Identification

PID*S*22*ST*34***22
Item Description Type (349)
PID01 S
Product/Process Characteristic Code (750)
PID02 22 Edge Treatment
Agency Qualifier Code (559)
PID03 ST Steel Code tables
Production Description Code (751)
PID04 34 Edge Treatment
Source Subqualifier (822)
PID07 22 Steel Table 22

Product/Item Identification

PID*S*TWF*ST*4***74
Item Description Type (349)
PID01 S
Product/Process Characteristic Code (750)
PID02 TWF Theoretical Weight Calculation Formula
Agency Qualifier Code (559)
PID03 ST Steel Code tables
Production Description Code (751)



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Example 856-1, Inbound to Processor (Mill sourced) with Chemistry

| | | |
|--------|--------------------|--|
| PID04 | 4 | Theoretical Weight Calculation Formula |
| Source | Subqualifier (822) | |
| PID07 | 74 | Steel Table 74 |



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Example 856-1, Inbound to Processor (Mill sourced) with Chemistry

Measurements

MEA*WT*WT*63870*01

Measurement Reference ID Code (737)

MEA01 WT Weights

Measurement Qualifier (738)

MEA02 WT Weight

Measurement Value (739)

MEA03 63870

Unit or Basis for Measurement Code (355)

MEA04 01 Actual Pounds '50' If Metric

Measurements

MEA*WT*WT*64573*24

Measurement Reference ID Code (737)

MEA01 WT Weights

Measurement Qualifier (738)

MEA02 WT Weight

Measurement Value (739)

MEA03 64573

Unit or Basis for Measurement Code (355)

MEA04 24 Theoretical Pounds '53' If Metric

Measurements

MEA*PD*TH*00.0275*ED

Measurement Reference ID Code (737)

MEA01 PD Actual Dimensions

Measurement Qualifier (738)

MEA02 TH Thickness

Measurement Value (739)

MEA03 00.0275

Unit or Basis for Measurement Code (355)

MEA04 ED or EM Decimal Inches 'MB' or 'MZ' If Metric

Measurements

MEA*PD*WD*65.5000*ED

Measurement Reference ID Code (737)

MEA01 PD Actual Dimensions

Measurement Qualifier (738)

MEA02 WD Width

Measurement Value (739)

MEA03 65.5000

Unit or Basis for Measurement Code (355)

MEA04 ED Decimal Inches 'MB' If Metric

Measurements

MEA*PD*LN*10545*LF

Measurement Reference ID Code (737)

MEA01 PD Actual Dimensions

Measurement Qualifier (738)

MEA02 LN Length

Measurement Value (739)

MEA03 10545

Unit or Basis for Measurement Code (355)

MEA04 LF Lineal Feet 'LM' If Metric

Measurements

MEA*PD*ID*24.00*ED

Measurement Reference ID Code (737)

MEA01 PD Actual Dimensions



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Example 856-1, Inbound to Processor (Mill sourced) with Chemistry

Measurement Qualifier (738)
MEA02 ID Inside Diameter
Measurement Value (739)
MEA03 24.00
Unit or Basis for Measurement Code (355)
MEA04 ED Decimal Inches 'MB' If Metric

Measurements

MEA*PD*OD*70.00*ED
Measurement Reference ID Code (737)
MEA01 PD Actual Dimensions
Measurement Qualifier (738)
MEA02 OD Outside Diameter
Measurement Value (739)
MEA03 70.00
Unit or Basis for Measurement Code (355)
MEA04 ED Decimal Inches 'MB' If Metric

Measurements

MEA*CH*ZC*.004*P1
Measurement Reference ID Code (737)
MEA01 CH Chemistry
Measurement Qualifier (738)
MEA02 ZC Carbon
Measurement Value (739)
MEA03 .004
Unit or Basis for Measurement Code (355)
MEA04 P1 Percent

Measurements

MEA*CH*ZMN*.159*P1
Measurement Reference ID Code (737)
MEA01 CH Chemistry
Measurement Qualifier (738)
MEA02 ZMN Manganese
Measurement Value (739)
MEA03 .159
Unit or Basis for Measurement Code (355)
MEA04 P1 Percent

Measurements

MEA*CH*ZN*.004*P1
Measurement Reference ID Code (737)
MEA01 CH Chemistry
Measurement Qualifier (738)
MEA02 ZN Nitrogen
Measurement Value (739)
MEA03 .004
Unit or Basis for Measurement Code (355)
MEA04 P1 Percent

Measurements

MEA*CH*ZTA*.030*P1
Measurement Reference ID Code (737)
MEA01 CH Chemistry
Measurement Qualifier (738)
MEA02 ZTA Titanium
Measurement Value (739)
MEA03 .030
Unit or Basis for Measurement Code (355)



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Example 856-1, Inbound to Processor (Mill sourced) with Chemistry

MEA04 P1 Percent

Measurements

MEA*CH*ZCB*.034*P1

Measurement Reference ID Code (737)

MEA01 CH Chemistry

Measurement Qualifier (738)

MEA02 ZCB Columbium

Measurement Value (739)

MEA03 .034

Unit or Basis for Measurement Code (355)

MEA04 P1 Percent

Measurements

MEA*CH*ZNB*.034*P1

Measurement Reference ID Code (737)

MEA01 CH Chemistry

Measurement Qualifier (738)

MEA02 ZNB Niobium

Measurement Value (739)

MEA03 .034

Unit or Basis for Measurement Code (355)

MEA04 P1 Percent

Additional Hierarchical and LIN Loops are required for the remaining two lifts.

Summary Area

Transaction Totals

CTT*3

Number of Line Items (354)

CTT01 3 Total Number of HL Segments
One Shipment (S), One Order (O), Three Item (I)

Transaction Set Trailer

SE*42*0001

Number of Included Segments (96)

SE01 42 Total number of segments in the transaction
including the ST and SE segments

Transaction Set Control Number (329)

SE02 0001 Transaction Set Control Number. Same as ST02
in the Transaction Set Header segment.