FAS Sales Reporting (SRP) Interface Control Document

Special Character Separated Value (.csv) File Upload

In support of:

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Document History

Version	Description	Date
1.0	Initial Draft	7/12/2016
2.0	Domain values of Non Federal Entity are changed. Refer 2.2.7 Section. Added additional Unit Measures description.	2/28/2017
2.1	Added instructions for reporting Return line items and Discount line items. Refer 2.2.1.1 & 2.2.1.2 Domain values of Unit Measures (PPD/VD/RTN) are added. Refer 2.2.6 Section.	5/26/2017
2.2	Updated the SIN Number as a mandatory field. Refer 2.2.1, 2.2.1.2, 2.2.2, 2.2.5 &	12/07/2018
2.3	Increased the size of the Manufacturer Name and Manufacturer Part Number from 40 to 125 characters	11/15/2022
2.4	Addition of Federal Customer, Order Date, Ship Date and Zip Code Shipped To	6/30/2024
3.0	Addition of Non-MAS Specifications	10/31/2024

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1 Introduction

1.1 Scope

This document describes how to report transactional sales data using CSV File Upload method on the FAS Sales Reporting application. The document provides guidance on format and data element definitions of the file, interface design, sample file and sample output.

1.2 Authentication

Contractor is required to have an GSA FAS ID account and be a point of contact (Admin rep or IFF Rep or an Authorized negotiator) on the Contract in order for the FAS Sales Reporting application to authenticate and authorize the Contractor to report sales. After logging into the application with a valid MFA Okta account, users can upload the CSV File to report transactional sales data.

2 CSV File Upload

2.1 Scope

The scope of this document is to define the format of the CSV file, of its data elements and how to upload the file in the application. (https://srp.fas.gsa.gov).

2.2 Report Sales Data through CSV File

Users can upload transactional sales data into the FAS Sales Reporting application using a CSV spreadsheet with a special character delimited file. A pipe character (|) has been used for delimiting the data. CSV File contains the same required fields as those found in the Report data by Form Entry page. The Report data by File upload feature allows you to enter data for multiple contracts at once.

2.3 Instructions for preparing sales data using CSV File Format

For a successful and timely submission of sales data by uploading CSV file please follow these step by step instructions:

1. Save an empty file template to your computer with **.csv** extension.
2. Enter your contract number(s) in column A for each line item.
3. Enter your sales data in the 16 Columns provided for MAS contracts or 17 Columns for GWAC or MAC contracts. Columns that are required fields are marked with Asterisk. See Definition of Data Fields below for explanation of each column. Follow the same order by using pipe delimiter ('|').
   a. Example MAS Header:

      Contract/BPA Number*|Order Number/PIID*|Description of Deliverable*|Manufacturer Name|Manufacturer Part Number|Unit Measure*|Quantity of Item Sold*|Universal Product Code|SIN Number*|Price Paid per Unit (US$)*|Total Price (US$)*|Non-Federal Entity*|Federal Customer|Order Date|Ship Date|Zip Code Shipped To

    b. Example GWAC/MAC Header:

       Contract Number *|Invoice Number *|Paid Date *|Task Order *|Line ID*|SIN/CLIN *|Knowledge/Skill Level|Description of Deliverable*|Unit Measure*|Quantity of Items Sold*|Unit Price (US$)*|Total Price (US$)*|Line Item Location*|Purchase Line Fee Category*|Security Clearance Level*|Applicable Labor Law|Final Invoice Check

4. Once sales data (all orders and line items for one or more Contracts) is entered into the spreadsheet, save the file to your local drive.

5. Login to the Contractor side of the SRP application via https://srp.fas.gsa.gov and navigate to **Home > Report Data via File Upload** option.

6. Once on the **Report Data via File Upload** page, choose the appropriate reporting period.

7. Then browse for the saved file in Step 4 and click on **Submit**.

8. When you click on **Submit'** you will be prompted to certify that all data being submitted is 'True and accurate'. If you agree, accept and click 'Submit'. If not, go back and make necessary changes to the CSV file.

2.3.1 Reporting Return Line Items (MAS Contracts Only)

1. Enter relevant information for all required fields:

    a. **MAS Contracts**: (Contract Number, Order Number, Description of Deliverable, Unit of Measure, Quantity of Item Sold, SIN Number, Unit Price,Total Price and Non-Federal Entity).

2. Under Unit Measure specify "RTN"

3. Under Quantity of Items Sold, specify the number of items returned. This should be a negative value.

4. Under Price Paid per Unit (US$), enter the unit price of the items returned. This should be a positive US$ amount.

5. Under Total Price (US$), enter the Total Price derived from Quantity of Items Sold * Price Paid per Unit (US$). This should be a negative value.

2.3.2 Reporting Discount Line Items (MAS Contracts Only)

1. Enter relevant information for all required fields:

   a. **MAS Contracts**: (Contract Number, Order Number, Description of Deliverable, Unit of Measure, Quantity of Item Sold, SIN Number, Unit Price,Total Price and Non-Federal Entity).

2. Under Unit Measure specify either "VD" for Volume Discount or "PPD" for Prompt Payment Discount.

3. Under Quantity of Items Sold, specify the number of discounts applied to a given order. This should be a negative value.

4. Under Price Paid per Unit (US$), enter the dollar amount of the discount. This should be a positive US$ amount.

5. Under Total Price (US$) enter the Total Price derived from Quantity of Items Sold * Price Paid per Unit (US$). This should be a negative value.

Definitions of Data Fields:

MAS Contracts

Field Label with Order	Field Description	Required Fields	Column Order	Max Field Length
Contract or BPA Number	Enter GSA Formal Contract Number. No Dashes required	Required	1	16
Order Number/Procurement Instrument Identifier (PIID)	Enter the Order number. If an Order number has multiple items repeat the Order number for each line item	Required	2	130
Description of Deliverable	Provide a description of the item	Required	3	1000

Field Label with Order	Field Description	Required Fields	Column Order	Max Field Length
(Maximum 1000 Characters)				
Manufacturer Name	Enter manufacturer's name of the product		4	125
Manufacturer Part Number	Enter manufacturer's number of the product. This should be a numeric value.		5	125
Universal Product Code (UPC)	Enter UPC		6	14
SIN Number	Enter SIN Number	Required	7	15
Unit Measure	Enter the Unit of Measure e.g. Each, Hour, etc.	Required	8	25 (Refer to 2.2.5)
Quantity of Item Sold	Enter a numerical value	Required	9	
Price Paid per Unit	Enter a dollar value	Required	10	0.00 to 99999999.9999
Total Price Paid	This field is a product of 'Quantity of Item Sold' and 'Price paid per Unit'. This field will be calculated by TDR	Required	11	0.00 to 99999999.9999
Non Federal Entity	If the Order was received from an appropriate Non Federal Entity, select codes specified in 2.2.4 section	Required	12	3 (Refer to 2.2.4)
Federal Customer	Enter the Federal Customer		13	
Order Date	Enter Date MM/DD/YYYY		14	
Ship Date	Enter Date MM/DD/YYYY		15	

Field Label with Order	Field Description	Required Fields	Column Order	Max Field Length
Zip Code Shipped To	Enter a numerical value		16	

GWAC/MAC Contracts

Field Label with Order	Field Description	Required Fields	Column Order	Max Field Length
`Contract Number	Enter GSA Formal Contract Number. No dashes required. This is the GSA MAS/GWAC contract number that was assigned by GSA. *(Example: 47QTCB22D0221)*	Required	1	
Invoice Number	Enter the invoice number from the customer agency's paid invoice.	Required	2	
Paid Date	Enter the date the invoice was paid by the customer agency.	Required	3	
Task Order Number	Enter the task order award document number without hyphens. It should be the Order Number assigned on the Award Document as reported to FPDS-NG. Ex.GSA Form 300, Block 2 or SF1449, Block 4. Do not use the Solicitation Number unless it is the same as the award Order Number.	Required	4	
Line ID	Enter a unique line item identification number. Entry may be alpha-numeric. Enter without Hyphens.	Required	5	

Field Label with Order	Field Description	Required Fields	Column Order	Max Field Length
SIN/CLIN	1. Enter the appropriate CLIN type number only. *(example: Non MAS Labor CLINs, enter 111 for Junior Computer and Information Research Scientist (Polaris), 11-2021 for Marketing Managers (OASIS+), or one of the non-labor CLINs like H00 - Fixed Price (Both).* 2. All orders, except for task orders with Zero Sales, must have a CAF Fee CLIN entered with the other CLIN line items. *(Either: D00 - Contract Access Fee (CAF) or E00 - Contract Access Fee (CAF); SPECIAL RATE)* 3. For task orders with no sales in a reporting period, enter: F00 - Zero Invoice.	Required	6	
Knowledge/Skill Level	Enter the experience level of the labor category selected in the SIN/CLIN field. *(Junior, Journeyman, Senior, or SME)*	Not Required; but we will reject OASIS+ contracts who do not provide this information through a data validation	7	
Description of Deliverable	Enter a short description of the line item. Note: Do not enter employee names into this field.	Required	8	

Field Label with Order	Field Description	Required Fields	Column Order	Max Field Length
Unit of Measure	Enter the line item unit of measure. The unit which is suggested based on your task order's Predominant Contract Type and CLIN Type. Please reach out to your GSA Program Office with any questions. (Unit, Hour, Each)	Required	9	
Quantity of Items Sold	Enter the line item quantity. Entry must be a number.	Required	10	17.4 e.g. (999999999 99999999.1 111)
Unit Price (US$)	Enter the line item invoiced price. Entry must be a dollar value.	Required	11	17.4 e.g. (999999999 99999999.1 111)
Total Price (US$)	Value is calculated based on unit price and quantity. Edits in this field will cause the price to be re-calculated.	Required	12	17.4 e.g. (999999999 99999999.1 111)
Line Item Location	Select where the work was performed. (Government Site, Contractor Site, Remote Site, or N/A)	Required	13	Alphanumeric
Purchase Line Fee Category	Enter the Purchase Line Fee Category displayed here is based on your contract family, the task order's Predominant Contract Type, and the CLIN Type you've selected. This is informational and will not impact your Invoice line item reporting. (example: Labor, Fee, Other).	Required	14	Alpha

Field Label with Order	Field Description	Required Fields	Column Order	Max Field Length
Security Clearance Level	Enter the security clearance that is applicable to the work being performed. (Confidential, Secret, Top Secret, TS/SCI, Q (Department of Energy), N/A)	Required	15	Alpha
Applicable Labor Law	Enter the labor law that is applicable to the work being performed on this task order. Note: This is a conditional field that applies to ancillary services. (SCA, DBA, Exempt or N/A)	Required for SIN/CLIN selected as L00 - Ancillary Labor	16	Alpha
Final Invoice Check	Indicate if the reported invoice line items are part of the final invoice for the task order. (yes or no)	Not Required	17	Alpha

Input Data format: CSV file

2.4   Sample CSV File

MAS Sample File Format:

Contract/BPA Number*|Order Number/PIID*|Description of Deliverable*|Manufacturer Name|Manufacturer Part Number|Unit Measure*|Quantity of Item Sold*|Universal Product Code|SIN Number*|Price Paid per Unit (US$)*|Total Price (US$)*|Non-Federal Entity*|Federal Customer|Order Date|Ship Date|Zip Code Shipped To

GS07F0052Y | 8376016 | For a SET of Ballpoint Pens | HAMMEREAMILL | 86700 | CH| 10 | 42976143480 | 22222 |33.48 |334.80 | N/A | fedcust | 10/30/2022 | 11/10/2022 | 20003

GS07F0053Z| 8374343 | Set contains 12 markers, eraSET | CIVCO MEDECIGRAMCARTRIDGEL SOLUTIONS | 610575 | BX | 10 | 42976143480 |1233 |234.58 |2345.80 | OTH | | | |

GWAC/MAC Sample File Format:

Contract Number *|Invoice Number *|Paid Date *|Task Order *|Line ID*|SIN/CLIN *|Knowledge/Skill Level|Description of Deliverable*|Unit Measure*|Quantity of Items Sold*|Unit Price (US$)*|Total Price (US$)*|Line Item Location*|Purchase Line Fee Category*|Security Clearance Level*|Applicable Labor Law|Final Invoice Check

VSCNONMAS|12212|01/11/2024|gwacdemo|2|15-1252|Junior|junior dev|HR|10|250|2500|Government Site|Labor|Secret|N/A|no

2.5 Output

If the uploaded file was successfully processed, you will see "Submitted" as the Report Status on the upload history page.

Upload History

Reporting Period Ending ↑↓	Confirmation Number ↑↓	File Name ↑↓	Date Received ↑↓	Report Status ↑↓
04/30/2023	20241021:145630	vscmaspipe.csv	10/21/2024 10:56:30	SUBMITTED

Filter: mas — Refresh

Showing 1 to 1 out of 1 entries — « ‹ 1 › » 25 ⌄

If the uploaded file could not be successfully processed, you will see "**REJECTED**" as the Report status on the upload history page.

Upload History

Q Filter 712				Refresh

Reporting Period Ending ↑↓	Confirmation Number ↑↓	File Name ↑↓	Date Received ↑↓	Report Status ↑↓
03/31/2023	20241021:135712	vscpipe.csv	10/21/2024 09:57:12	REJECTED ❶

Showing 1 to 1 out of 1 entries   « ‹ **1** › »   25 ⌄

2.6   Sample Rejected Messages

By clicking on the information (i) hyperlink on rejected status, users can see detailed error messages.
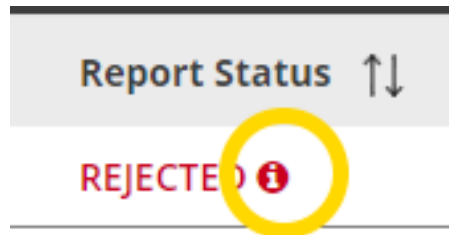
Scenario 1: If you choose a reporting period which was not current (or valid) for the saved contract, then you will see a rejected message similar to one of the ones shown below (depending on whether reporting MAS or GWAC/MAC sales).

Invalid Reporting period. Contract Number: GS14F0049M - Transactional sales data was not reported for a previous reporting period. Please complete reporting for previous reporting periods before reporting for the selected reporting period.

or

Previous reporting period has not been fully submitted for Contract

or

Invalid reporting period 03-2022 for contract VSCNONMAS

Scenario 2: Large data file uploads could take more than a few minutes. The file will be accepted and processed asynchronously. Therefore, to appropriately queue the files and prevent multiple file uploads for the same reporting period the system will put the file uploaded in an "In-Progress" status and lock the reporting period until the processing is complete. If a user tries to upload another file during this status, you will see a rejected message similar to the one shown below.

TDR Sales Data was IN-PROGRESS for Contract Number: GS35F0258L and Reporting Period 01-2015. Please wait till it gets processed.

Scenario 3: If the total price value (product of Quantity and Unit price) is invalid according to other entered values you will see a rejected message similar to the one shown below.

Row No 3: The Total Price is invalid. Based on the values you entered for 'Quantity of Item Sold' and 'Price Paid per Unit', the system expects a total price of X * X. Please adjust your values and resubmit..

Scenario 4: If you try to upload sales data for a Contract not assigned to the user you will see a rejected message similar to the one shown below.

Contract Number: GS14F0049MM is not found. Please check the contract number and submit again

Scenario 5: If you already reported data for a particular reporting period but trying to report again you will see a rejected message similar to the one shown below.

> **Contract Number: GS35F0661S - Transactional sales data was already reported for selected Reporting Period.**
>
> or
>
> **Cannot report data for already reported Task Order "gwacdemo"**

Scenario 6: If you do not include any required fields you will see a rejected message similar to the one shown below.

> **Row No 3: Description of Deliverable is required.**
>
> or
>
> **Required field "Description of Deliverable" cannot be empty for CLIN XXX**

Scenario 7: If you report a discount but do not have a related sales line item for the same order number then you will see the following error message. Ensure your discount line item always has a corresponding sales line item.

> **Row No 3: Discount amount cannot be reported for an order where no sales have been reported.**

2.7   Non Federal Entity (MAS Contracts Only)

Code	Description
SCP	STLOC Cooperative Purchasing
SDP	STLOC Disaster Purchasing

Code	Description
OTH	Other
N/A	Not Applicable

2.8 CLINS (SIN/CLIN Field, GWAC/MAC Contracts Only)

CODE	DESCRIPTION	CATEGORY	UNIT OF MEASURE	NOTES
See Labor Categories table in specific contract. (ex. 111 or 11-2021)	Labor Categories	Labor	Hour (HR)	
L00	Ancillary Labor	Labor	Hour (HR)	
D00	Contract Access Fee (CAF)	Fee	Each (EA)	
E00	Contract Access Fee (CAF) SPECIAL RATE	Fee	Each (EA)	Applies only to GWACs
F00	Zero Invoice	Other	Unit (UN)	
H00	Fixed Price Services	Other	Unit (UN)	

B00	Cost Reimbursement Services	Other	Unit (UN)	
A00	Materials and Other Direct Costs (ODCs)	Other	Unit (UN)	
C00	Travel	Other	Unit (UN)	Applies only to OASIS+
J00	Indirect Costs	Other	Unit (UN)	Applies only to OASIS+
G00	Award/Fixed/Incentive Fees	Fee	Each (EA)	

2.9   Applicable Labor Law Definitions (GWAC/MAC Contracts Only)

ABBR.	DEFINITION
SCA	The Services Contract Act (SCA), now known as the Service Contract Labor Standards, are contracts over $2,500 shall contain mandatory provisions regarding minimum wages and fringe benefits, safe and sanitary working conditions, notification to employees of the minimum allowable compensation, and equivalent Federal employee classifications and wage rates. Under 41 U.S.C.6707(d), service contracts may not exceed 5 years. Contractors performing on service contracts in excess of $2,500 to which no predecessor contractor's collective bargaining agreement applies shall pay their employees at least the wages and fringe benefits found by the Department of Labor to

	prevail in the locality or, in the absence of a wage determination, the minimum wage set forth in the Fair Labor Standards Act.
DBA	Davis Bacon Act (DBA) and Related Acts apply to contractors and subcontractors performing on federally funded or assisted contracts in excess of $2,000 for the construction, alteration, or repair (including painting and decorating) of public buildings or public works. Davis-Bacon Act and Related Act contractors and subcontractors must pay their laborers and mechanics employed under the contract no less than the locally prevailing wages and fringe benefits for corresponding work on similar projects in the area.
Exempt	A task order that is exempt from the SCA and/or the DBA.
N/A	Not Applicable

2.10 Labor Category Codes and Definitions (GWAC/MAC Contracts Only)

Contract Family	Contract Section and URLs
POLARIS	Section J-2
OASIS+	Section J-1

2.11 Unit Measures (Abbreviation and Description)

The following are only the unit of measures supported in TDR application. The unit description needs to be sent in the request.

MAS Contract

Unit Abbreviation	Unit Description
01	ACTUAL POUNDS
02	STATUTE MILE
03	SECONDS
04	SMALL SPRAY
05	LIFTS
08	HEAT LOTS
10	GROUP
11	OUTFIT
12	PACKET
13	RATION
14	SHOT
15	STICK
16	115 KILOGRAM DRUM
17	100 POUND DRUM
19	TANK TRUCK
20	20 FOOT CONTAINER
21	40 FOOT CONTAINER
22	DECILITER PER GRAM
23	GRAMS PER CUBIC CENTIMETER
24	THEORETICAL POUNDS
25	GRAMS PER SQUARE CENTIMETER

26	ACTUAL TONS
27	THEORETICAL TONS
28	KILOGRAMS PER SQUARE METER
29	POUNDS PER 1000 SQUARE FEET
30	HORSEPOWER DAYS PER AIR DRY METRI
32	KILOGRAMS PER AIR DRY METRIC TONS
33	KILOPASCAL SQUARE METERS PER GRAM
34	KILOPASCALS PER MILLIMETER
35	MILLILITERS PER SQUARE CENTIMETER
37	OUNCES PER SQUARE FOOT
38	OUNCES PER SQUARE FOOT PER 0.01 I
40	MILLILITER PER SECOND
41	MILLILITER PER MINUTE
43	SUPER BULK BAG
44	500 KILOGRAM BULK BAG
45	300 KILOGRAM BULK BAG
46	25 KILOGRAM BULK BAG
47	50 POUND BAG
48	BULK CAR LOAD
50	ACTUAL KILOGRAMS
51	ACTUAL TONNES
52	CREDITS
53	THEORETICAL KILOGRAMS
54	THEORETICAL TONNES
56	SITAS
57	MESH

58	NET KILOGRAMS
59	PARTS PER MILLION
60	PERCENT WEIGHT
61	PARTS PER BILLION
62	PERCENT PER 1000 HOURS
63	FAILURE RATE IN TIME
64	POUNDS PER SQUARE INCH GAUGE
65	COULOMB
66	OERSTEDS
67	SIEMENS
68	AMPERE
69	TEST SPECIFIC SCALE
70	VOLT
71	VOLT-AMPERE PER POUND
72	WATTS PER POUND
73	AMPERE TURN PER CENTIMETER
74	MILLI PASCALS
76	GAUSS
77	MIL
78	KILOGAUSS
79	ELECTRON VOLT
80	POUNDS PER SQUARE INCH ABSOLUTE
81	HENRY
82	OHM
83	FARAD
84	KILO POUNDS PER SQUARE INCH (KSI)
85	FOOT POUNDS
86	JOULES

87	POUNDS PER CUBIC FOOT
89	POISE
90	SAYBOLD UNIVERSAL SECOND
91	STOKES
92	CALORIES PER CUBIC CENTIMETER
93	CALORIES PER GRAM
94	CURL UNITS
95	20,000 GALLON TANKCAR
96	10000 GALLON TANKCAR
97	10 KILOGRAM DRUM
98	15 KILOGRAM DRUM
1A	CAR MILE
1B	CAR COUNT
1C	LOCOMOTIVE COUNT
1D	CABOOSE COUNT
1E	EMPTY CAR
1F	TRAIN MILE
1G	FUEL USAGE (GALLONS)
1H	CABOOSE MILE
1I	FIXED RATE
1J	TON MILES
1K	LOCOMOTIVE MILE
1L	TOTAL CAR COUNT
1M	TOTAL CAR MILE
1N	COUNT
1O	SEASON
1X	QUARTER MILE
2A	RADIANS PER SECOND

2B	RADIANS PER SECOND SQUARED
2C	ROENTGEN
2F	VOLTS PER METER
2G	VOLTS (ALTERNATING CURRENT)
2H	VOLTS (DIRECT CURRENT)
2I	BRITISH THERMAL UNITS (BTUS) PER
2J	CUBIC CENTIMETERS PER SECOND
2K	CUBIC FEET PER HOUR
2L	CUBIC FEET PER MINUTE
2M	CENTIMETERS PER SECOND
2N	DECIBELS
2P	KILOBYTE
2Q	KILOBECQUEREL UNIT OF RADIATION
2R	KILOCURIE UNIT OF RADIATION
2U	MEGAGRAM
2V	MEGAGRAMS PER HOUR
2W	BIN
2X	METERS PER MINUTE
2Y	MILLIROENTGEN
2Z	MILLIVOLTS
3B	MEGAJOULE
3C	MANMONTH
3E	POUNDS PER POUND OF PRODUCT
3F	KILOGRAMS PER LITER OF PRODUCT
3G	POUNDS PER PIECE OF PRODUCT
3H	KILOGRAMS PER KILOGRAM OF PRODUCT
3I	KILOGRAMS PER PLACE OF PRODUCT

4A	BOBBIN
4B	CAP
4C	CENTISTOKES
4D	CURIE
4E	20-PACK
4F	100-PACK
4G	MICROLITER
4H	MICROMETER
4I	METERS PER SECOND
4J	METERS PER SECOND PER SECOND 4K
4L	MEGABYTE
4M	MILLIGRAMS PER HOUR
4N	MEGABECQUAREL
4O	MICROFARAD
4P	NEWTONS PER METER
4Q	OUNCE INCH
4R	OUNCE FOOT
4S	PASCAL
4T	PICOFARAD
4U	POUNDS PER HOUR
4V	CUBIC METER PER HOUR
4W	TON PER HOUR
4X	KILOLITER PER HOUR
5A	BARRELS PER MINUTE
5B	BATCH
5C	GALLONS PER THOUSAND
5E	MMSCF/DAY
5F	POUNDS PER THOUSAND

5G	PUMP
5H	STAGE
5I	STANDARD CUBIC FOOT
5J	HYDRAULIC HORSE POWER
5K	COUNT PER MINUTE
5P	SEISMIC LEVEL
5Q	SEISMIC LINE
A8	DOLLARS PER HOURS
AA	BALL
AB	BULK PACK
AC	ACRE
AD	BYTES
AE	AMPERES PER METER
AF	CENTIGRAM
AH	ADDITIONAL MINUTES
AI	AVERAGE MINUTES PER CALL
AJ	COP
AK	FATHOM
AL	ACCESS LINES
AM	AMPOLUE
AN	MINUTES OR MESSAGES
AP	ALUMINUM POUNDS ONLY
AQ	ANIT-HEMOPHILIC FACTOR (AHF) UNIT
AR	SUPPOSITORY
AS	ASSORTMENT
AT	ATMOSPHERE
AU	OCULAR INSERT SYSTEM
AV	CAPSULE

AW	POWDER-FILLER VIALS
AX	TWENTY
AY	ASSEMBLY
AZ	BRITISH THERMAL UNITS (BTUS) PER
B0	BRITISH THERMAL UNITS (BTUS) PER
B1	BARRELS PER DAY
B2	BUNKS
B3	BATTTING POUND
B5	BILLET
B6	BUN
B7	CYCLES
B8	BOARD
B9	BATT
BA	BALE
BB	BASE BOX
BC	BUCKET
BD	BUNDLE
BE	BEAM
BF	BOARD FEET
BG	BAG
BH	BRUSH
BI	BAR
BJ	BAND
BK	BOOK
BL	BLOCK
BM	BOLT
BN	BULK
BO	BOTTLE

BP	100 BOARD FEET
BQ	BRAKE HORSE POWER
BR	BARREL
BS	BASKET
BT	BELT
BU	BUSHEL
BV	BUSHEL, DRY IMPERIAL
BW	BASE WEIGHT
BX	BOX
BY	BRITISH THERMAL UNIT (BTU)
BZ	MILLION BTU'S
C0	CALLS
C1	COMPOSITE PRODUCT POUNDS (TOTAL W
C2	CARSET
C3	CENTILITER
C4	CARLOAD
C5	COST
C6	CELL
C7	CENTIPOISE (CPS)
C8	CUBIC DECIMETER
C9	COIL GROUP
CA	CASE
CB	CARBOY
CC	CUBIC CENTIMETER
CD	CARAT
CE	CENTIGRADE, CELSIUS
CF	CUBIC FEET

CG	CARD
CH	CONTAINER
CI	CUBIC INCHES
CJ	CONE
CK	CONNECTOR
CL	CYLINDER
CM	CENTIMETER
CN	CAN
CO	CUBIC METERS (NET)
CP	CRATE
CQ	CARTRIDGE
CR	CUBIC METER
CS	CASSETTE
CT	CARTON
CU	CUP
CV	COVER
CW	HUNDRED POUNDS (CWT)
CX	COIL
CY	CUBIC YARD
CZ	COMBO
D2	SHARES
D3	SQUARE DECIMETER
D5	KILOGRAM PER SQUARE CENTIMETER
D8	DRAIZE SCORE
D9	DYNE PER SQUARE CENTIMETER
DA	DAYS
DB	DRY POUNDS
DC	DISK (DISC)

DD	DEGREE
DE	DEAL
DF	DRAM
DG	DECIGRAM
DH	MILES
DI	DISPENSER
DJ	DECAGRAM
DK	KILOMETERS
DL	DECILITER
DM	DECIMETER
DN	DECI NEWTON-METER
DO	DOLLARS, U.S.
DP	DOZEN PAIR
DQ	DATA RECORDS
DR	DRUM
DS	DISPLAY
DT	DRY TOM
DU	DYNE
DX	DYNES PER CENTIMETER
DY	DIRECTORY BOOKS
DZ	DOZEN
E1	HECTOMETER
E3	INCHES, FRACTION--AVERAGE
E4	INCHES, FRACTION--MINIMUM
E5	INCHES, FRACTION--ACTUAL
E7	INCHES, DECIMAL--AVERAGE
E8	INCHES, DECIMAL--ACTUAL
E9	ENGLISH, (FEET, INCHES)

EA	EACH
EB	ELECTRONIC MAIL BOXES
EC	EACH PER MONTH
ED	INCHES, DECIMAL--NOMINAL
EF	INCHES, FRACTION-NOMINAL
EM	INCHES, DECIMAL-MINIMUM
EP	ELEVEN PACK
EQ	EQUIVALENT GALLONS
EV	ENVELOPE
EX	FEET, INCHES AND FRACTION
EY	FEET, INCHES AND DECIMAL
EZ	FEET AND DECIMAL
F1	THOUSAND CUBIC FEET PER DAY
F9	FIBERS PER CUBIC CENTIMETER OF AI
FA	FAHRENHEIT
FB	FIELDS
FC	1000 CUBIC FEET
FD	MILLION PARTICLES PER CUBIC FOOT
FE	TRACK FOOT
FF	HUNDRED CUBIC METERS
FG	TRANSDERMAL PATCH
FH	MICROMOLAR
FL	FLAKE TON
FM	MILLION CUBIC FEET
FO	FLUID OUNCE
FP	POUNDS PER SQ. FT.
FR	FEET PER MINUTE
FS	FEET PER SECOND

FT	FOOT
FZ	FLUID OUNCE (IMPERIAL)
G2	U.S. GALLONS PER MINUTE
G3	IMPERIAL GALLONS PER MINUTE
G4	GIGABECQUEREI
G5	GILL (IMPE6AI)
G7	MICROFICHE SHEET
GA	GALLON
GB	GROSS BARRELS
GC	GRAMS PER 100 GRAMS
GD	GALLONS/DAY
GE	POUNDS PER GALLON
GF	GRAMS PER 100 CENTIMETERS
GG	GREAT GROSS (DOZEN GROSS)
GH	HALF GALLON
GI	IMPERIAL GALLONS
GJ	GRAMS PER MILLILITER
GK	GRAMS PER KILOGRAM
GL	GRAMS PER LITER
GM	GRAMS PER SQ. METER
GN	GROSS GALLONS
GO	MILLIGRAMS PER SQUARE METER
GP	MILLIGRAMS PER CUBIC METER
GQ	MICROGRAMS PER CUBIC METER
GR	GRAM
GS	GROSS
GT	GROSS KILOGRAM
GV	GIGAJOULES

GW	GALLONS PER THOUSAND CUBIC FEET
GX	GRAIN
GY	GROSS YARD
GZ	GAGE SYSTEMS
H1	HALF PAGES - ELECTRONIC
H2	HALF LITER
H4	HECTOLITER
HA	HANK
HB	HUNDRED BOXES
HC	HUNDRED COUNT
HD	HALF DOZEN
HE	HUNDRETH OF A CARAT
HF	HUNDRED FEET
HG	HECTOGRAM
HH	HUNDRED CUBIC FEET
HI	HUNDRED SHEETS
HJ	HORSEPOWER
HK	HUNDRED KILOGRAMS
HL	HUNDRED FEET -LINEAR
HM	MILES PER HOUR
HN	MILLIMETERS OF MERCURY
HO	HUNDRED TROY OUNCES
HP	MILLIMETER H2O
HR	HOURS
HS	HUNDRED SQUARE FEET
HT	HALF HOUR
HU	HUNDRED
HV	HUNDRED WEIGHT (SHORT)

HW	HUNDRED WEIGHT (LONG)
HY	HUNDRED YARDS
HZ	HERTZ
IA	INCH POUND
IB	INCHES PER SECOND (VIBRATION VELOCITY)
IC	COUNTS PER INCH
IE	PERSON
IF	INCHES OF WATER
IH	INHALER
II	COLUMN INCHES
IL	INCHES PER MINUTE
IM	IMPRESSIONS
IN	INCH
IP	INSURANCE POLICY
IT	COUNTS PER CENTIMETER
IU	INCHES PER SECOND (LINEAR SPEED)
IV	INCHES PER SECOND PER SECOND (ACCELERATION)
IW	INCHES PER SECOND PER SECOND (VIBRATION ACC)
JB	JUMBO
JE	JOULE PER KELVIN
JG	JOULE PER GRAM
JK	MEGA JOULE PER KILOGRAM
JM	MEGA JOULE/CUBIC METER
JO	JOINT
JR	JAR

JU	JUG
K1	KILOWATT DEMAND
K2	KILOVOLT AMPERES REACTIVE DEMAND
K3	KILOVOLT AMPERES REACTIVE HOUR
K4	KILOVOLT AMPERES
K5	KILOVOLT AMPERES REACTIVE
K6	KILOLITER
K7	KILOWATT
KA	CAKE
KB	KILOCHARACTERS
KC	KILOGRAMS PER CUBIC METER
KD	KILOGRAMS DECIMAL
KE	KEG
KF	KILOPACKETS
KG	KILOGRAM
KH	KILOWATT HOUR
KI	KILOGRAMS/MILLIMETER WIDTH
KJ	KILOSEGMENTS
KK	100 KILOGRAMS
KL	KILOGRAMS/METER
KM	KILOGRAMS PER SQUARE METER, KILOGRAMS, DECIMAL
KO	MILLEQUIVALENCE CAUSTIC POTASH/GRAM OF PRODUCT
KP	JOULE PER KILOGRAM
KQ	KILOPASCAL
KR	KILOROENTGEN
KS	1000 POUNDS PER SQUARE INCH

KT	KIT
KV	KELVIN
KW	KILOGRAMS PER MILLIMETER
KX	MILLILITERS PER KILOGRAM
L2	LITERS PER MINUTE
LA	POUNDS PER CUBIC INCH
LB	POUND
LC	LINEAR CENTIMETER
LD	LITERS PER DAY
LE	LITE
LF	LINEAR FOOT
LG	LONG TON
LH	LABOR HOURS
LI	LINEAR INCH
LJ	LARGE SPRAY
LK	LINK
LL	LIFETIME
LM	LINEAR METER
LN	LENGTH
LO	LOT
LP	LIQUID POUNDS
LR	LAYER(S)
LS	LUMP SUM
LT	LITER
LX	LINEAR YARDS PER POUND
LY	LINEAR YARD
M0	MAGNETIC TAPES
M2	MILLIMETER-ACTUAL

M3	MAT
M4	MONETARY VALUE
M5	MICROCURIE
M6	MILLIBAR
M7	MICRO INCH
M8	MEGA PASCALS
M9	MILLION BRITISH THERMAL UNITS PER
MA	MACHINE/UNIT
MB	MILLIMETER-NOMINAL
MC	MICROGRAM
MD	AIR DRY METRIC TON
ME	MILLIGRAM
MF	MILLIGRAM PER SQ. FT. PER SIDE
MG	METRIC GROSS TON
MH	MICRONS
MJ	MINUTES
MK	MILLIGRAMS PER SQUARE INCH
MI	MILLIGRAMS PER LITER
ML	MILLILITER
MM	MILLIMETER
MN	METRIC NET TON
MO	MONTHS
MP	METRIC TON
MQ	1000 METERS
MR	METER
MS	SQUARE MILLIMETER
MU	MILLICURIE
MV	NUMBER OF MULTS

MW	METRIC TON KILOGRAMS
MX	MIXED
MY	MILLIMETER-AVERAGE
MZ	MILLIMETER-MINIMUM
N1	PEN CALORIES
N2	NUMBER OF LINES
N3	PRINT POINT
N4	PEN GRAMS (PROTEIN)
N6	MEGAHERTZ
N9	CARTRIDGE NEEDLE
NA	MILLIGRAMS PER KILOGRAM
NB	BARGE
NC	CAR
ND	NET BARRELS
NE	NET LITERS
NF	MESSAGES
NG	NOT GALLONS
NH	MESSAGE HOURS
NI	NET IMPERIAL GALLONS
NJ	NUMBER OF SCREENS
NL	LOAD
NM	NAUTICAL MILE
NN	TRAIN
NQ	MHO
NR	MICRO MHO
NS	SHORT TON
NT	TRAILER
NU	NEWTON-METER

NV	VEHICLE
NW	NEWTON
NX	PARTS PER THOUSAND
NY	POUNDS PER AIR-DRY METRIC TON
OA	PANEL
ON	OUNCES PER SQUARE YARD
OP	TWO PACK
OT	OVERTIME HOURS
OZ	OUNCE - AV
P0	PAGES - ELECTRONIC
P1	PERCENT
P2	POUNDS PER FOOT
P3	THREE PACK
P4	FOUR-PACK
P5	FIVE-PACK
P6	SIX PACK
P7	SEVEN PACK
P8	EIGHT-PACK
P9	NINE PACK
PA	PAIL
PB	PAIR INCHES
PC	PIECE
PD	PAD
PE	POUNDS EQUIVALENT
PF	PALLET (LIFT)
PG	POUNDS GROSS
PH	PACK (PAK)
PI	PITCH

PJ	POUNDS, DECIMAL - POUNDS PER SQUA
PK	PACKAGE
PL	PALLET/UNIT LOAD
PM	POUNDS-PERCENTAGE
PN	POUNDS NET
PO	POUNDS PER INCH OF LENGTH
PP	PLATE
PQ	PAGES PER INCH
PR	PAIR
PS	POUNDS PER SQ. INCH
PT	PINT
PU	MASS POUNDS
PV	HALF PINT
PW	POUNDS PER INCH OF WIDTH
PX	PINT, IMPERIAL
PY	PECK, DRY U.S.
PZ	PECK, DRY IMPANEL
Q1	QUARTER (TIME)
Q2	PINT U.S. DRY
Q3	MEAL
Q4	FIFTY
Q5	TWENTY-FIVE
Q6	THIRTY-SIX
Q7	TWENTY-FOUR
QA	PAGES - FACSIMILE
QB	PAGES - HARDCOPY
QD	QUARTER DOZEN
QH	QUARTER HOURS

QK	QUARTER KILOGRAM
QR	QUIRE
QS	QUART, DRY U.S.
QT	QUART
QU	QUART, IMPERIAL
R2	BECQUEREL
R3	REVOLUTIONS PER MINUTE
R4	CALORIE
R5	THOUSANDS OF DOLLARS
R6	MILLIONS OF DOLLARS
R7	BILLIONS OF DOLLARS
R8	THOUSAND CUBIC METERS
RA	RACK
RD	ROD
RE	REEL
RG	RING
RH	RUNNING OR OPERATING HOURS
RI	PICA
RK	ROLL-METRIC MEASURE
RL	ROLL
RM	REAM
RN	REAM-METRIC MEASURE
RO	ROUND
RP	POUNDS PER REAM
RS	RESETS
RT	REVENUE TON MILES
RU	RUN
S3	SQUARE FEET PER SECOND

S4	SQUARE METERS PER SECOND
S5	SIXTY-FOURTHS OF AN INCH
S6	SESSIONS
S7	STORAGE UNITS
S8	STANDARD ADVERTISING UNITS (SAUS)
S9	SLIP SHEET
SA	SANDWICH
SB	SQUARE MILE
SC	SQUARE CENTIMETER
SD	SOLID POUNDS
SE	SECTION
SF	SQUARE FOOT
SG	SEGMENT
SH	SHEET
SI	SQUARE INCH
SJ	SACK
SK	SPLIT TANKTRUCK
SL	SLEEVE
SM	SQUARE METER
SN	SQUARE ROD
SO	SPOOL
SP	SHELF PACKAGE
SQ	SQUARE
SR	STRIP
SS	SHEET-METRIC MEASURE
ST	SET
SV	SKID
SW	SKEIN

SX	SHIPMENT
SY	SQUARE YARD
SZ	SYRINGE
T0	TELECOMMUNICATIONS LINES IN SERVI
T2	THOUSANDTHS OF AN INCH
T3	THOUSAND PIECES
T4	THOUSAND SAGS
T5	THOUSAND CASINGS
T6	THOUSAND GALLONS
T7	THOUSAND IMPRESSIONS
T8	THOUSAND LINEAR INCHES
T9	THOUSAND KILOWATT HOURS
TA	TENTH CUBIC FOOT
TB	TUBE
TC	TRUCKLOAD
TD	THERMS
TE	TOTE
TF	TEN SQUARE YARDS
TG	GROSS TON
TH	THOUSAND
TI	THOUSAND SQUARE INCHES
TJ	THOUSAND SQ. CENTIMETERS
TK	TANK
TL	THOUSAND FEET (LINEAR)
TM	THOUSAND FEET (BOARD)
TN	NET TON (2,000 LB).
TO	TROY OUNCE
TP	TEN-PACK

TQ	THOUSAND FEET
TR	TEN SQUARE FEET
TS	THOUSAND SQUARE FEET
TT	THOUSAND LINEAR METERS
TU	THOUSAND LINEAR YARDS
TV	THOUSAND KILOGRAMS
TW	THOUSAND SHEETS
TX	TROY POUND
TY	TRAY
TZ	THOUSAND CUBIC FEET
U1	TREATMENTS
U2	TABLET
U3	TEN
U5	TWO HUNDRED FIFTY
UA	TORR
UB	TELECOMMUNICATIONS LINES IN SERVI
UC	TELECOMMUNICATIONS PORTS
UD	TENTH MINUTES
UE	TENTH HOURS
UF	USAGE PER TELECOMMUNICATIONS LINE
UH	TEN THOUSAND YARDS
UL	UNITLESS
UM	MILLION UNITS
UN	UNIT
UT	METRIC LONG TON
VA	VOLTAMPERE PER KILOGRAM
VC	FIVE HUNDRED

VI	VIAL
VS	VISIT
VT	VOLTAGE
W2	WET KILO
W4	TWO WEEK
WA	WAFTS PER KILOGRAM
WB	WET POUND
WE	WET TON
WG	WINE GALLON
WH	WHEEL
WI	WEIGHT PER SQUARE INCH
WK	WEEK
WM	WORKING MONTHS
WP	PENNYWEIGHT
WR	WRAP
WT	WATTAGE
WU	WATTAGE HOURS
WW	MILLILITERS OF WATER
X1	CHAINS (LAND SURVEY)
YD	YARD
YL	100 LINEAL YARDS
YR	YEARS
YT	TEN YARDS
Z1	LIFT VAN
Z2	CHEST
Z3	CASK
Z4	HOGSHEAD
Z5	LUG

Z6	CONFERENCE POINTS
Z8	NEWSPAPER AGATE LINE
ZP	PAGE
ZZ	MUTUALLY DEFINED
PPD	PROMPT PAYMENT DISCOUNT
VD	VOLUME DISCOUNT
RTN	RETURN