

SUPPLEMENT 1 EXAMPLES

SOURCES OF PRECIOUS METALS BEARING ITEMS

Specific items are provided below to assist personnel in identifying precious metals sources.

Electronic Scrap

Circuit cards/boards
Circuit breakers
Connectors

Contacts
Plugs
Relays

Wave guides
Wiring Harness

Silver Bearing Items

Buss bars
Anode butts
Batteries (Silver/Copper,
Silver/Cadmium, Silver
Zinc, &
Silver/Magnesium)
Dental wires
Dental powders

Desalting kits
Film and Paper
Jewelry
Plated or washed silver
surfaces
Radar antennas
Receiver assemblies
Relay contact points

Tableware
Silver clad base metal
Silver bearing jet engine
parts
Silver solders
Silver brazing alloys
Silver Flake

Gold Bearing Items

Brazing alloys
Dental sweepings
Dental scrap
Dental wire
Gold clad parts
Gold connector pins
Gold salts and solders

Jewelry
Optical scrap
Medals
Plating hangers and wires
Relay and contact points
Transistors and diodes

Uniform emblems, buttons
and badges
Gold bearing eyeglass
frames
Gold plated lapel pins
Gold foil

Platinum and Platinum Family Bearing Items

Aircraft magnetos
Aircraft relay contact points/breakers
Aircraft spark plugs (platinum)
Dental wire (platinum alloy)

Detonator fuses
Electronic diodes and parts
Electronic tube grid
Evaporators and evaporate dishes

Insignia coding boards
Magnetos (platinum)
Platinum/group catalysts
Platinum foil
Platinum resistor furnace coils
Semiconductors and resistant alloys

Solenoid switches (platinum)
Spinnerets and feeder dies
Telephone switchboards (palladium)
Thermocouple wires
Triodes for various transmitting amplifiers
Voltage regulator

DRMS FORM 1648

(See Chapter 4, Paragraph C2)

| | | |
|--|-------------|-------------------------|
| ITEM(s) FOR ASSAY <small>Prescribing Authority: DRMS-I 4160.14, Vol. VIII</small> | | DATE |
| TO | | |
| FROM: (DRMO give complete address) | | |
| NSN | NOUN NAME | |
| QUANTITY | LENGTH | |
| UNIT PRICE | UNIT WEIGHT | |
| MFG or PART NUMBER | | |
| SIGNATURE OF DRMO PRECIOUS METALS MONITOR | | |
| SIGNATURE OF DRMR PRECIOUS METALS MONITOR | | APPROVAL DISAPPROVAL |
| REMARKS | | |
| FOR ASSAYER USE ONLY | | |
| PRECIOUS METAL(s) | | |
| TYPE | WEIGHT | |
| LOCATION | | |
| OTHER COMMENTS | | |
| SIGNATURE OF ASSAYER | | |

DRMS FORM 1648 JAN 88

DRMS FORM 984

(See Chapter 4, Paragraph {EMBED FormFlow.Form})

SALES VERSUS RECOVERY
(See Chapter 4, Paragraph D2)

1. Precious Metal Bearing Scrap

a. Do not offer scrap containing economically recoverable amounts of precious metals for sale without the expressed written consent of **DRMS-BCP**. Normally such consent is only given for test sales, although in certain cases such as in the sale of precious metal bearing hazardous wastes, such consent may be given if DRMS determines that recovery may not be cost effective/feasible. When DRMS has made a predetermination to sell the material, a DRMS Form 984 is not needed.

b. Scrap which contains limited amounts of precious metals and for which recovery does not appear cost effective, should be offered for sale without completion of a DRMS Form 984.

2. Precious Metal Bearing Items

a. Do not sell precious metal bearing items listed in paragraph D3. Instead, but downgrade to scrap and processed for precious metal recovery.

b. Non-listed items containing limited amounts of precious metal for which recovery does not appear cost effective will be offered for sale without completion of a DRMS Form 984.

c. Non-listed items containing recoverable amounts of precious metals may be offered for sale upon completion of a DRMS Form 984.

DRMS FORM 984

REQUIRED

NOT REQUIRED

Scrap:

- | | | |
|-----------------------------|--|-----------------------|
| - Test Sale | | X |
| - Not Economical to Recover | | X |
| - Economical to Recover | | (Sale not Authorized) |

Items :

- | | | |
|-----------------------------|---|-----------------------|
| - Not Economical to Recover | | X |
| - Economical to Recover | X | |
| - Listed in Paragraph D3 | | (Sale not Authorized) |

PREPARATION OF DRMS FORM 984
(See Chapter 4, Paragraphs D2 and E1c)

1. Prepare DRMS Form 984 in duplicate. Retain the original with the DRMO copy of DLA Form 1366 and attach the copy to the DLA Form 1366 forwarded to **DRMS-BCP**.

2. Complete DRMS Form 984 as follows:

a. Enter the Sales Referral List No. and Item No.; the DTID No. (if applicable); a description of the sales item in Block entitled "Usable Property Noun Nomenclature"; the NSN/Pre-Lot No. (if applicable); and the DRMO name.

b. DRMO PMM completes part 1. Disregard the parenthetical instructions following "DRMO CALCULATIONS". The following instructions for entries are keyed to attached sample DRMS Form 984.

(1) Enter the factor(s) for the sales item in the appropriate blank(s) as follows:

| | FACTORS | |
|--------------------------------|--|--------|
| | GOLD | SILVER |
| (a) Items listed in PMMF* | Use PM content from PMMF, converted to troy ounces | |
| (b) Unused Film <u>ONLY</u> ** | | |
| 1. Black & White | | .26 |
| 2. Color | | .21 |
| 3. Paper | | .13 |
| (c) Electronics | .001 | .007 |

* For items listed in the PMMF, compute the precious metals content by multiplying the quantity of each item times the precious metals content for that item. For sales line items with several NSNs, determine a summary troy ounce total for each precious metal. Enter this total as the troy ounce ("TO") figure in Part 1a of DRMS Form 984 and leave the troy ounce per pound and weight entries will be left blank.

** If the sales item consists of more than one category of film, compute the silver content for the weight of each category and a summary troy ounce total determined. Enter this total as the troy ounce ("TO") figure in Part 1a of DRMS Form 984. Leave the troy ounce per pound and weight entries blank.

(2) Enter the weight of the sales item in the appropriate blank(s). This will normally be the total weight of the sales item; exceptions are:

(a) When the sales item consists of both precious metals bearing and non-precious metals bearing items, enter the weight of only those items which are precious metals bearing.

(b) When the sales item consists of gold, silver platinum, and palladium bearing property, pro-rate the total weight of the sales item according to the appropriate precious metal.

(3) Multiply each factor by the weight to determine the troy ounces of each precious metal within the sales item.

(4) Enter the appropriate processing/refinery cost per pound for the material within the sales item. Costs are based on commercial recovery contract costs; **DRMS-BCP** provides costs and quarterly updates by message.

(5) Enter the net weight of material which would be shipped for recovery of precious metals. For lots containing precious metal bearing and non-precious metal bearing material estimate the weight of the precious metal material which would eventually be processed for recovery. For electronics recyclable material this would be the resultant SCL P8E weight.

(6) Multiply (4) by (5) to determine the estimated processing/refinery cost.

- (7) Enter the transportation cost per pound for material within the sales item.
- (8) Enter the net weight of material that would be actually shipped plus 10% for packaging/packing.
- (9) Multiply (7) by (8) to determine the estimated transportation cost.

NOTE: Blocks 7, 8 and 9 are applicable only if the material is shipped. Material picked up by the contractor at the DRMO will not have an additional transportation cost as the contractor's transportation cost is included in the refining cost.

- (10) Enter the packing, crating and handling (PC&H) cost per pound for material that would be shipped.
- (11) Enter the same weight as entered in (5).
- (12) Multiply (10) by (11) to determine the estimated cost of preparation of material for shipment.

NOTE: Costs for transportation (7) and PC&H (10) should be obtained from host activity. . Material picked up by the contractor at your DRMO will not have host transportation or PC&H costs.

(13) Enter the total of entries in (6), (9) and (12); this represents the estimated total cost for recovery/refining of precious metal bearing material within the sales item.

c. Upon receipt of DRMS Form 984 and DLA Form 1366 the entries in Part 1 will be reviewed by the PMM. Use these entries for preparation of the Minimum Acceptable Prices article to be included in the Invitation for Bid (IFB). Annotate the IFB item number on DRMS Form 984 and the forms provided the Sales Contracting Officer (SCO) with each IFB.

(1) The SCO completes Part 2. Specific instructions for entries are keyed to attached sample DRMS Form 984.

(a) Enter the base price for the precious metals in the appropriate blank(s). The base price is the latest price quoted by Handy and Harman prior to bid opening date. The SCO obtains the price no later than 10:00 AM, local time, on the day before bid opening.

(b) Enter the troy ounce figure(s) entered in Part 1a in the appropriate blank(s).

(c) Multiply (a) by (b) to determine the value of each precious metal within the sales item.

(d) Enter the total of entries in (c); this will represent the value of recoverable precious metals within the sales item.

(e) Subtract total cost (line 1b(4)) from the total value (line 2a(4)) and enter the resultant figure; this represents the minimum acceptable price for the sales line item.

(2) Provide the minimum acceptable price to bidders who inquire after 10:00 AM, local time, on the day before bid opening. This also used by the SCO for bid evaluation purposes.

d. Use Part 3, Remarks, to enter any computations necessary to determine the factor(s) to be used; to compute the quantity(ies) of precious metals within the sales item; or to reflect any additional information and/or computations as may be necessary.

PRECIOUS METALS INDICATOR CODES (PMIC)

DEFINITION: These codes identify the Precious Metal (PM) content. They are presented as a result of a NSN Characteristic Search from the DLSC Federal Logistics Information System (FLIS). They have been approved for use in DoD 4000.25-1-M and must appear in position 62 of the DTID.

| <u>PMIC</u> | <u>DEFINITION</u> |
|-------------|--|
| A | Item does not contain precious metals. |
| C | Item contains a combination of two or more precious metals (silver, gold, platinum). |
| G | Item contains gold. |
| P | Item contains platinum family metals. |
| S | Item contains silver. |
| U | Precious metal type is unknown. |
| V | Precious metal type varies between manufacturers. |

SHIPPING INSTRUCTIONS FOR PRECIOUS METALS BEARING SCLs

(See Chapter 4, Paragraph E)

| SCL | DESCRIPTION | CONUS DRMOs | EUROPEON DRMOs * | PACIFIC DRMOs * |
|---|---|-------------|------------------|-----------------|
| P02 | hypo solution | A | A | A |
| P04 & P05 | Film & Film Ash (silver bearing) | B | E | F |
| P06, PSC, & VSF | Cartridges, Cells & Flake (silver bearing) | B | E | F |
| P81, P83, P84, P87, P8A, P8B, P8C, P8G, & P13 | Low grade scrap | B | E | F |
| VCS, VSM & VGM | High grade scrap | B | E | F |
| P8E | Sorted electronic scrap | B | E | F |
| PB1, PB2, PB4, PB5, PB6, & P12 | Batteries (silver bearing) | B | E | F |
| P07 & P08 | Cyanide/acid based liquids, salts, sludges, etc. | C | C | C |
| P24 | Unsorted electronic scrap | D | D | D |

A = PROCESS ON-SITE AT GENERATOR LOCATION.

B = HOLD ON-SITE PENDING DISPOSITION INSTRUCTIONS FROM DRMS-BCP FOR PM CONTRACTOR PICKUP.

C = SEE CHAPTER 4, PARA E8 - REQUIRES DISPOSITION INSTRUCTIONS FROM DRMS-BCP/DRMS-I.

D = HOLD ON-SITE PENDING DISPOSITION INSTRUCTIONS FROM DRMS-BCP FOR DEMAN CONTRACTOR PICKUP.

E = SHIP TO DRMO JACKSONVILLE, FL, CONTACT DRMO PRIOR TO SHIPMENT.

F = SHIP TO DRMO LEWIS, WA, CONTACT DRMO PRIOR TO SHIPMENT.

NOTE: * Some commodities/SCLs from Europe and/or Pacific areas may require the costs of transportation to be computed prior to shipping to the CONUS DRMOs and evaluated against the value of the material if it is to be recycled for the precious metals content. Contact DRMS-BCP for assistance in this matter.

FACTORS FOR PRECIOUS METALS SHIPMENTS

(See Chapter 4, Paragraph G5)

Use factors, when necessary, to determine the value of precious metals scrap for shipment. Multiply the appropriate factor by the quantity to be shipped (pounds for "P" codes and grams for "V" codes) to determine the estimated troy ounces of recoverable precious metals. Determine the value of the shipment by multiplying the troy ounces by the current market value of the appropriate precious metal.

| <u>SCL</u> | <u>FACTOR</u> | <u>PRECIOUS METAL</u> |
|------------|---------------|--------------------------------|
| PB1 | 5.98 | Silver |
| PB2 | 2.63 | Silver |
| PB4 | 2.22 | Silver |
| PB5 | 1.45 | Silver |
| PB6 | 2.64 | Silver |
| PSC | 1.65 | Silver |
| P05 | 0.52 | Silver |
| P06 | 0.27 | Silver |
| P07 | 3.22 | * |
| P08 | 3.22 | * |
| P12 | 2.64 | Silver |
| P13 | * | Gold/Silver/Platinum/Palladium |
| P8A | .032 | Platinum |
| P8B | .579 | Silver |
| P8C | .032 | Gold |
| P8G | * | Gold/Silver/Platinum/Palladium |
| P81 | .032 | Platinum |
| P83 | * | Platinum |
| P84 | .321 | Silver |
| P87 | * | Gold/Silver/Platinum/Palladium |
| VCS | * | Gold/Silver/Platinum/Palladium |
| VGM | .02475 | Gold |
| VPM | .0289 | Platinum |
| VSF | .0289 | Silver |
| VSM | .0289 | Silver |

* Contact **DRMS-BCP** for determination on a case-by-case basis.

NOTE: For SCL P02, use 0.5 per gallon.

DD FORM 1348-1A DOCUMENTATION REQUIREMENTS

(See Chapter 4, Paragraph H)

The following information on the DD 1348-1A is the minimum information required for shipment/pick-up of precious metals bearing scrap:

1. Appropriate SCL code (refer to DRMS-I 4160.14, Volume IV or the DAISY C-A-T for SCL code definitions).
2. Appropriate unit of issue and quantity of material being shipped/picked up.
3. DRMO Document Number. For pick-ups by a recovery contractor, use the **DRMS-BCP** provided requisition number that comes with the delivery order.
4. DoDAAC and in-the-clear address and name of the DRMO. Ensure address is the correct and complete mailing address so contractors can return a completed DD Form 1348-1A.
5. Destination address. For recovery contractors, the address will be provided by **DRMS-BCP** with the delivery order
6. Noun description of material being shipped/picked-up. (SCLs P06 or PSC must also include the number (each) of the steel wool cartridges (P06) or passive silver cells/cores (PSC) ,.
7. Additional required information as follows (may be entered on the reverse side of the document, or on attached paper, if necessary):
 - a. When shipping SCL VSF, include the total number of individual packages such as card board boxes, plastic bags, , cans, etc., in the shipment and the statement that "weight is gross weight and includes packaging".
 - b. Enter the number of containers. Piece count tri-walls.
 - c. For pickup by a recovery contractor also include:
 - (1) the contract, delivery order and CLIN/SUBCLIN numbers.
 - (2) truck seal number. If DRMO has no seals prior to contractor pickup contact DRMS-BCP with a request for seals.
 - (3) state whether the quantity is a net weight. (Net weight is defined as the actual weight of material without any packaging, containerization or addition of extraneous material. If the quantity is other than a net weight, state what packaging, containerization, etc., contributed to determining the weight. (4) gross/total weight. (Gross weight is defined as the net plus tare).
 - d. Signature(s) of DRMO precious metals weighmaster and disinterested witness, or person(s) involved in the outloading of the property, and date that property is outloaded.

PRECIOUS METALS RECOVERY EQUIPMENT/SUPPLIES
(See Chapter 6, Paragraph C)

DRMS-BCP and Service Managers (SM) will perform the following tasks.

- 1 Determine requirement for precious metals equipment/supplies to satisfy generator requirement .
- 2 SMs will submit equipment/supply requests utilizing the DRMS Forms 1678. (Supplement 4-22)to DRMS-BCP by mail or facsimile.

Defense Reutilization and Marketing Service
Attn: **DRMS-BCP**
Federal Center
74 N. Washington Avenue
Battle Creek, MI 49017-3092

Facsimile DSN 661-7348 or COMM. 269-961-7348.

Telephonic orders should be limited to emergency orders only, followed up with a DRMS Form 1678 annotated with the date the order was placed and person contacted.

- 3 DRMS-BCP will initiate filling the equipment/supply orders from stock or through purchase actions.
- 4 Equipment/Supplies shipped require documentation to be obtained from the generator as proof of receipt. Generator should sign and date the DoD Form 1149 created by DRMS-BCP when the equipment/supply order is filled, retain a copy for the generator records, and return the original document to DRMS-BCP.

DRMS FORM 1678

(See Supplement 4, *Silver Recovery Unit Accountability*, Paragraph 2)

| REQUEST FOR EQUIPMENT/SUPPLIES | |
|--|---|
| ACTIVITY DODAAD TAC 2 ADDRESS _____ _____ _____ | DATE DoDAAC ATTENTION LINE (Only if necessary) BUILDING NUMBER (Unless included in DoDAAD TAC 2 address) |
| EQUIPMENT - SUPPLIES - OTHER REQUESTED | |
| TYPE - TROY OUNCE CAPACITY | QUANTITY |
| OTHER SUPPLIES | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| REASON/JUSTIFICATION | |
| SIGNATURE | |
| TO BE COMPLETED BY DRMS-LM | |
| REQUISITION NO. | DATE |
| COMMENTS | |

DRMS Form 1678 (Previous edition to be used until exhausted)