

**BY ORDER OF THE DIRECTOR
OKLAHOMA CITY AIR LOGISTICS CENTER
TINKER AIR FORCE BASIC**

**TINKER AIR FORCE BASE
INSTRUCTION 21-409**

**20 SEPTEMBER 2007
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Maintenance**



**PRECIOUS METALS RECOVERY
PROGRAM (PMRP)**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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Purpose. This Tinker instruction implements AFMAN 23-110, Volume VI, Chapter 4, and establishes local responsibilities for identifying, handling, and safeguarding inventory assets, materials, film, scrap, and residue containing precious metals during procurement, storage, and disposal. It is applicable to all OC-ALC activities including the USAF Reserve, except the U.S. Navy. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance AFMAN 37-123 (will convert of AFMAN 33-363), *Management of Records*, and disposed in accordance with the Air Force Records Disposition Schedule (RDS) located at <https://afrims.amc.af.mil/>.

SUMMARY OF CHANGES

This revision realigns our local procedures to guidance offered by AFMAN 23-110, Volume VI, Chapter 4 and updates references, organizational titles and functional address symbols.

1. Background Information.

1.1. The Precious Metal Recovery Program (PMRP) promotes conservation and recovery of metals such as gold, silver, platinum, and metals of the platinum family. Precious metals may be found in an elemental (pure) state or as a coating or alloy. The PMRP also applies to authorized internal use with Government Furnished Material (GFM) for new procurement or repair contracts.

1.2. AFMC/A4SM is the Air Force and command focal point for the USAF PMRP (AFMAN 23-110 Vol. 6).

1.3. The Defense Logistics Agency and the Defense Reutilization and Marketing Service (DLA/DRMS) is the program manager accountable for administering the overall DoD PMRP (DoD 4160.21M).

1.4. Terms.

1.4.1. **Positions of Special Trust.** This position pertains to individuals who are authorized to receipt, issue, and harvest precious metals, to include certifying the weight annotated on the Disposal Turn-in Document (DTID) for fine precious metals.

1.4.2. **Precious metals** are those metals generally considered to be uncommon and highly valuable which are relatively superior in certain properties such as resistance to corrosion and electric conductivity. They include gold, silver, and metals of the platinum family to include palladium, iridium, osmium, rhodium, and ruthenium.

1.4.3. **Critical alloys** should not be confused with precious metals. Critical alloys are defined as alloy materials which are often in short supply and usually must be imported, for example cobalt or manganese.

2. Responsibilities.

2.1. The commander/director of the 448th Combat Sustainment Wing is assigned responsibility for base-wide program management and control of the PMRP.

2.2. The OC-ALC/Tinker AFB PMRP manager will :

2.2.1. Implement and be responsible for an effective base-wide program for the management and control of precious metals.

2.2.2. Act as focal point for the installation on all matters concerning the PMRP.

2.2.3. Establish and publish dates to conduct annual surveys to review operations, documentation, and adherence to overall program policies by each involved generating/using activity. Prepare and maintain on file a report of findings.

2.2.4. When inspection schedules do not conflict, it is in the best interest of the OC-ALC/TAFB PMRP for a representative of the Security Police Administration and Reports Squadron (72 SFS/SFA) to accompany the OC-ALC/TAFB PMRP manager on annual surveys specified in paragraph 2.3.3. Administration and Reports Branch will furnish a copy of all Resources Protection Program (AFI 31-209) inspection results, relating to precious metals discrepancies, to the OC-ALC/TAFB PMRP manager for review and file.

2.2.5. Maintain a list of each involved organization's PMRP monitors/alternates, type of precious metals used and type of recovery equipment used, as appropriate.

2.2.6. There is no requirement for the installation PMRP manager to keep a record of the amount of precious metals used on the installation, or fine precious metals, precious metals bearing scrap, or items turned in to the Defense Reutilization & Marketing Office (DRMO). The record keeping for use of fine precious metals and turn in of fine precious metals, scrap, and end items will be accomplished by the using/generating activity and will be subject to periodic review/audit by the PMRP manager. (Annual totals are published by the DRMS.)

2.2.7. Ensure each activity involved in the PMRP initiates and maintains a self-inspection program to include, as a minimum, periodic testing of hypo-solution draining from electrolytic/cartridge units to ensure they are operating properly, and compliance with receipt, issue, and turn-in requirements. Ensure necessary security precautions are taken to preclude any loss of precious

metals residue. Also ensure a disinterested party (one who does not operate the equipment or harvest the silver) witnesses the harvesting.

2.2.8. Conduct program management training for activity monitors on a periodic or as required basis. Perform reviews/surveys on activities' performance under the PMRP. Prepare and maintain a report of findings and ensure corrective action is taken on any discrepancies.

2.2.9. Serve as the focal point for ordering all supplies/equipment from the DLA/ DRMO. Ensure activities receiving, issuing, handling, and using fine precious metals and high content precious metals bearing items, particularly those assigned a Critical Item Code (CIC) of "R," maintain appropriate auditable records, and that the records and quantities of material on hand are audited, periodically, but not less than once a year, by disinterested personnel, i.e., persons not involved in the use or recovery of precious metals. There are no requirements for issue control of items assigned a PMIC unless they have a CIC assigned which requires control. The base/depot supply officer may require control based on unusually high consumption rates.

NOTE: The Contracting Directorate is responsible for administration of the PMRP for off-site civilian contractors. All direction to these contractors concerning the PMRP will be through the cognizant administrative contracting officer (ACO).

3. OC-ALC/TAFB participating activities will:

3.1. Each major organization (group/division level) participating in the PMRP will appoint, in writing, a PMRP monitor and alternate (as appropriate).

3.2. Appoint, in writing, individuals to receipt for/issue precious metals, harvest precious metals, witness harvesting of precious metals and certify the weight annotated on DD Form 1348-1, DoD Single Line Item Release/Receipt Document (see [Attachment 1](#)).

3.3. Maintain a list of personnel occupying positions of special trust. Activities failing to properly document personnel assigned to positions of special trust may be refused issue of precious metals/precious metals bearing items.

3.4. Issue policy/instructions outlining complete PMRP procedures within their organization. The group/organizational primary PMRP monitor, at least once a year, will review and update the organizational policy to ensure compliance with the PMRP. The policy and any associated instruction should contain, as a minimum:

3.4.1. Specific responsibilities in the handling and accounting of precious metals scrap, residue or stock numbered precious metal items in inventory.

3.4.2. Definitions of typical items containing precious metals processed by the issuing organization.

3.4.3. A workable plan to safeguard accumulated precious metals scrap, residue, or precious metal items in inventory from pilferage.

3.4.4. Responsibilities and procedures for personnel training and safety.

3.4.5. A workable plan to identify, segregates, and store items containing precious metals.

3.4.6. Ensure that self-inspection checklists are developed and are consistent with operational peculiarities of each precious metals inventory control point or generating activity as deemed nec-

essary by the organizational monitor. Checklists should be updated, as necessary, to reflect findings and recommendations of periodic inspections. Wing/organizational primary and/or alternate PMRP monitors will use their locally developed checklists to conduct annual self-inspections of their respective organizations. A summary report of inspection results will be kept for reference purposes and a report of discrepancies forwarded to the OC-ALC/TAFB PMRP manager.

4. Turn-in Procedures.

4.1. All excess and condemned items bearing precious metals will be turned into the Defense Reutilization and Marketing Office (DRMO) by their respective NSN unless they qualify for turn-in as scrap. Those items in supply condition code "A" must be turned-in by NSN. The DRMO, as applicable, will process the items for utilization, donation, sale, or recovery of the precious metals. The PMIC will be identified in column 62 of the DD Form 1348-1A. Additionally, all items with a "C" or "V" will have "Contains Precious Metals" annotated in the remarks block of the DD Form 1348-1A. Items will be safeguarded to minimize and prevent theft. Turn-in procedures are outlined in [Attachment 1](#). Precious metals bearing scrap classification codes are defined in [Attachment 2](#). NSN classifications for precious metals are listed below.

Table 1. NSN Classifications for Precious Metals

<u>NOMENCLATURE</u>	<u>NSN</u>
Gold	9660-00-042-7733
Silver	9660-00-106-9432
Platinum Granules	9660-00-042-7768
Platinum Sponge	9660-00-151-4050
Palladium Granules	9660-00-042-7765
Palladium Sponge	9660-01-039-0320
Rhodium	9660-01-010-2625
Iridium	9660-01-011-1937
Ruthenium	9660-01-039-0313

4.2. Turn-in to DRMO precious metals bearing scrap, waste, and excess refined precious metals. Items will be safeguarded to prevent theft. Turn-in procedures are outlined in [Attachment 1](#) (DD Form 1348-1A), per AFMAN 23-110.

5. Organizational Procedures.

5.1. Group/division PMRP monitors will be responsible for establishment and maintenance of a PMRP notebook, which will contain all the required instructions and correspondence prescribed by this operating instruction (OC-ALC/TI 21-409).

5.2. All generating activities will ensure that spent hypo-solution containing precious metals' residue is not introduced into the industrial drain system. Precious metals containing residue is hazardous. All organizations using electrolytic silver recovery systems and/or silver recovery cartridges will develop

adequate procedures for checking off-flow. This is to ensure equipment is operating at peak efficiency and ensures that minimal amounts of fixer containing silver flow through the system and into the facility drainage system. Recovery equipment will:

5.2.1. Always be kept in good repair.

5.2.2. Be operated, cleaned, and harvested according to instructions provided in DoD 4160.21M, Chap X, Attachment 3, and operating manual supplied with each unit.

5.2.3. Precious metals bearing materials scrap with hazardous characteristics will be treated as hazardous waste per DoD 4160.21M, Chapter VIII, and Chapter IX, Paragraph E.

5.2.4. All base activities involved in the PMRP are responsible for making recommendations to the OC-ALC/TAFB PMRP manager regarding improvement to, or enhancement of, the program. The OC-ALC/TAFB PMRP manager will consolidate these recommendations for submission to AFMC/A4SM.

5.2.5. The ACO or property administrator (PA) will ensure that any substantial precious metals residue generated by a contractor is returned to the government annually, at the conclusion of the contract, or more often as deemed necessary by the ACO.

6. Precious Metal Item Identification.

6.1. NSNs containing precious metals have precious metal indicator codes (PMIC) assigned (see table below) in the federal cataloging system. Only those items which also have a CIC "R" assigned require protection, receipt, and issue control afforded precious metals. Those items with CIC "R" should be protected and handled as pilferable items IAW AFI 32-209. These codes indicate the existence, nonexistence, and type of precious metals contained in the item of supply. The PMIC will:

6.1.1. Be assigned by the equipment specialist (ES) and transmitted by the inventory managers to the federal cataloging system. The ES will also ensure PMICs are assigned at provisioning conferences. The PMICs should be obtained from the contractor by application of MIL-STD-1388-2A, *DoD Requirements for a Logistics Support Analysis Record*.

6.1.2. Appear in the federal cataloging system publication MLC and be provided to base level organizations via the *Stock Number Users Directory* (SNUD).

6.1.3. Be placed in column 62 of the disposal turn-in document when turning NSN material into the DRMO ([Attachment 1](#)).

6.1.4. When precious metals are offered as GFM in support of new procurement, the material will be identified on the GFM attachment, which accompanies the procurement document. Activities initiating purchase requests for procurement of precious metals, or for items where precious metals can be furnished as GFM, will determine availability from DLA. Activities requiring precious metals will call Defense Industrial Supply Center (DISC) at DSN 442-3045 or 3006 for availability prior to requisitioning of any precious metals. Requisitions should be forwarded to:

Defense Industrial Supply Center

ATTN: OCCB

700 Robbins Avenue

Philadelphia, PA 19111

Table 2. Precious Metals Indicator Codes

PMIC	DEFINITION
A	Item does not contain Precious Metals.
C	Item contains combination of two or more Precious Metals (silver, gold, and 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.

NOTES:

1. PMIC is a mandatory data element.
2. Invalid PMIC submitted receives the HQ Return Code if not compatible with the characteristic data submitted/recorded in segment V.
3. PMIC "V" addresses an "or" situation that may be encountered by the computer where the presence or absence of precious metals varies between items of production for the same item of supply.

6.1.5. When items for which the Air Force is a user are suspected of, or have been laboratory tested to confirm precious metals content, and for which a PMIC has not been assigned or has been determined to be incorrect, the organizational prime PMRP monitor will prepare and submit reports of the items suspected or identified as containing precious metals to the OC-ALC/TAFB PMRP manager as they are generated. The reports will contain: NSN, manufacturer's part number, noun, description, type of precious metal and a copy of the laboratory analysis.

6.1.6. The OC-ALC/TAFB PMRP manager will forward information on any OC-ALC managed item suspected to contain precious metals to the 948 CBSG cataloging monitor for review/validation of PMIC. When an item managed by another ALC or service/agency is suspected to contain

precious metals, the OC-ALC /TAFB PMRP manager will forward a letter to that activity requesting review/validation of PMIC. Upon receipt of completed action by the appropriate IM/ES, the OC-ALC/TAFB PMRP manager will advise originator of action taken.

6.1.7. For local assignment of PMIC to K (kit) stock numbers, the following applies: PMIC "A" will be assigned to kit NSNs having no known precious metals content. PMIC "V" (precious metals content varies) will be assigned to kit NSNs known to contain precious metals.

6.1.8. When turn-in of a kit NSN is affected, the kit will either be turned-in as a kit and the DRMO will recover the precious metals; or the kit will be disassembled and the items that generated the PMIC "V" will be turned-in under their respective NSNs.

7. Repair, Modification & Overhaul Contract.

7.1. AF activities requiring fine precious metals for internal AF programs and for use on production/repair contracts as GFM will follow procedures outlined in AFMAN 23-110, Volume VI, Chapter 4, Paragraph 10. When contracts are initiated by applicable product directorate, Appendix A will identify appropriate directive and technical order when repair items contain precious metals.

7.2. Identify the items or parts to be used during repair or modifications which contain precious metals and list separately as an attachment to Appendix B of such contracts.

7.3. Review requirements for accountability reporting, security, and disposition of items containing precious metals will be reviewed during pre and post-award surveys as required by AFMCI 21-113.

8. Selection of Personnel for PMRP Positions of Special Trust.

8.1. **Supervisor responsibilities.** First-level supervisors will not place persons in positions of special trust until a record check with 72 SFS/SFA has been completed. This applies to persons transferred or reinstated from a previous position of special trust. A PMRP "position of trust" refers to a position in which the individual is responsible for the issue/handling, storage, harvesting, and safeguarding of either fine precious metals or items that contain precious metals.

8.2. **72d Security Forces Squadron (SFS) responsibilities.** The 72 SFS/SFA will review security files of personnel, both military and civilian, who are to be placed in positions of special trust. Security forces will notify requestor of their findings and recommendations within 10 days.

8.3. **Identification of positions.** First-level supervisors, with the assistance of the group and/or organizational PMRP monitors, will identify positions that require special trust within the PMRP.

8.4. **Assignment to Positions of Special Trust.** Supervisors will request a records check by letter (see [Attachment 4](#)) through the organizational PMRP monitor to the 72 SFS. If the records check is satisfactory, the supervisor can appoint the person to the position of special trust. The original copy of the appointment will be retained by the requesting organization.

8.5. Individuals may be removed from a position of special trust by annotating their removal in writing by the appointing official.

9. Records. All PMRP monitor appointment memos are to be file maintained in the appropriate PMRP monitor's notebook. Positions of Trust appointments/removals must be file maintained in the appropriate PMRP monitor's notebook. All training records and self-inspection results are to be filed maintained in the appropriate PMRP monitor's notebook. These constitute evidence of actions taken and, as such, must be entered into the appropriate group file plan.

ROBERT J. CONNE
Director

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

DoD 4160.21M, *Defense Utilization and Disposal Manual*, Chapter XII

AFM 23-110, Volume VI, Chapter 4, *Precious Metals Recovery Program*

AFI 32-209, *Resources Protection Program*

AFMCM 23-3, *Request for Cataloging Data/Action*

T.O. 00-25-113, *Conservation, Segregation, and Disposal of Critical Alloys and Precious Metals*

AFMCI 21-113, *Contract Maintenance Programs for Depot Maintenance Business Area (DMBA)*.

Attachment 2**TURN-IN PROCEDURES**

1. Turn-in precious metals bearing scrap, sludge, flake, solutions, powders, black and white photographs and negatives, and other mixtures and forms, and excess fine precious metals to the servicing DRMO.
2. Turn-in excess and condemned items bearing precious metals as items by NSN, unless they qualify for turn-in as scrap. If the PMIC has been assigned, place it in column 62 of the DD Form 1348-1A.
3. Turn-in excess fine precious metals by the NSN assigned. Enter troy weight in grams in columns 25-29. Enter the kind of fine precious metals in blocks "w" through "y."
4. Harvest silver flake and silver sludge.
5. Enter silver flake or silver sludge as wet or dry, as applicable, in blocks "w" through "y." Enter "silver recovery cartridge" and serial number when turning-in a silver recovery cartridge.
6. Identify the type of scrap for silver, gold, and platinum scrap generated as a result of grinding, drilling, cutting, etc., in blocks "w" through "y," before turning in to DRMO.
7. Turn-in all other precious metals bearing scrap with the weight in avoirdupois pounds and blocks "w" through "y" annotated "precious metals bearing scrap." Industrial funded (IF) activities need to mark the DD Form 1348-1A as "industrial fund scrap" and include the IF account number to which 100 percent of the sales proceeds will be deposited should the DRMO sell the scrap.
8. Data required on the turn-in document when turning material in as scrap include: stock number, retention quantity, demilitarization code, reclamation code, automated data processing equipment code (ADPEC), condition code, unit cost, and total cost.
9. Explain any variance in weight when weighing precious metals turn-ins. It may be necessary to re-weigh material when transporting between two locations and different scales. If a variance still occurs, document the circumstances, sign and date the DD Form 1348-1A, and have the DRMO representative also sign and date the document. Keep a copy of the document with your precious metals records.
10. Enter the Demil code for any item turned-in by NSN in column 65 of the DD Form 1348-1A.
This is a mandatory entry.

NOTE: Turn-in of precious metals bearing items/scrap does not override restrictions imposed for the turn-in of hazardous material/waste such as the mercury found in some electromechanical switches, or the Polychlorinated Biphenyl (PCBs) found in some electronic capacitors. When in doubt, turn-in procedures for hazardous materials will take precedent.

Attachment 3

ISSUE RELEASE/RECEIPT DOCUMENT

DD FORM 1348-1A, JUL 91 (EG) ISSUE RELEASE/RECEIPT DOCUMENT

27. ADDITIONAL DATA		26. RIC (4-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (55-56) UP (74-80)		25. NATIONAL STOCK NO. & ADD (8-22)		24. DOCUMENT NUMBER & SUFFIX (30-44)	
18. TV CONT		19. NO CONT		20. TOTAL WEIGHT		21. TOTAL CUBE	
22. RECEIVED BY				23. DATE RECEIVED			
17. ITEM NOMENCLATURE				16. FREIGHT CLASSIFICATION NOMENCLATURE			
10. QTY. REC'D		11. UP		12. UNIT WEIGHT		13. UNIT CUBE	
14. UFC		15. SL		9. PS			
5. DOC DATE		6. NMFC		7. FRT RATE		8. TYPE CARGO	
1. TOTAL PRICE		DOLLARS		CTS		2. SHIP FROM	
3. SHIP TO		4. MARK FOR		UNIT PRICE		DOLLARS	
DOLLARS		CTS		DOLLARS		CTS	
1. O. I. C. E. N.		2. O. I. C. E. N.		3. O. I. C. E. N.		4. O. I. C. E. N.	
5. O. I. C. E. N.		6. O. I. C. E. N.		7. O. I. C. E. N.		8. O. I. C. E. N.	
9. O. I. C. E. N.		10. O. I. C. E. N.		11. O. I. C. E. N.		12. O. I. C. E. N.	
13. O. I. C. E. N.		14. O. I. C. E. N.		15. O. I. C. E. N.		16. O. I. C. E. N.	
17. O. I. C. E. N.		18. O. I. C. E. N.		19. O. I. C. E. N.		20. O. I. C. E. N.	
21. O. I. C. E. N.		22. O. I. C. E. N.		23. O. I. C. E. N.		24. O. I. C. E. N.	
25. O. I. C. E. N.		26. O. I. C. E. N.		27. O. I. C. E. N.		28. O. I. C. E. N.	
29. O. I. C. E. N.		30. O. I. C. E. N.		31. O. I. C. E. N.		32. O. I. C. E. N.	
33. O. I. C. E. N.		34. O. I. C. E. N.		35. O. I. C. E. N.		36. O. I. C. E. N.	
37. O. I. C. E. N.		38. O. I. C. E. N.		39. O. I. C. E. N.		40. O. I. C. E. N.	
41. O. I. C. E. N.		42. O. I. C. E. N.		43. O. I. C. E. N.		44. O. I. C. E. N.	
45. O. I. C. E. N.		46. O. I. C. E. N.		47. O. I. C. E. N.		48. O. I. C. E. N.	
49. O. I. C. E. N.		50. O. I. C. E. N.		51. O. I. C. E. N.		52. O. I. C. E. N.	
53. O. I. C. E. N.		54. O. I. C. E. N.		55. O. I. C. E. N.		56. O. I. C. E. N.	
57. O. I. C. E. N.		58. O. I. C. E. N.		59. O. I. C. E. N.		60. O. I. C. E. N.	
61. O. I. C. E. N.		62. O. I. C. E. N.		63. O. I. C. E. N.		64. O. I. C. E. N.	
65. O. I. C. E. N.		66. O. I. C. E. N.		67. O. I. C. E. N.		68. O. I. C. E. N.	
69. O. I. C. E. N.		70. O. I. C. E. N.		71. O. I. C. E. N.		72. O. I. C. E. N.	
73. O. I. C. E. N.		74. O. I. C. E. N.		75. O. I. C. E. N.		76. O. I. C. E. N.	
77. O. I. C. E. N.		78. O. I. C. E. N.		79. O. I. C. E. N.		80. O. I. C. E. N.	
81. O. I. C. E. N.		82. O. I. C. E. N.		83. O. I. C. E. N.		84. O. I. C. E. N.	
85. O. I. C. E. N.		86. O. I. C. E. N.		87. O. I. C. E. N.		88. O. I. C. E. N.	
89. O. I. C. E. N.		90. O. I. C. E. N.		91. O. I. C. E. N.		92. O. I. C. E. N.	
93. O. I. C. E. N.		94. O. I. C. E. N.		95. O. I. C. E. N.		96. O. I. C. E. N.	
97. O. I. C. E. N.		98. O. I. C. E. N.		99. O. I. C. E. N.		100. O. I. C. E. N.	

Attachment 4**PRECIOUS METALS BEARING SCCS**

<u>Code</u>	<u>Description</u>
PBI	Silver chloride-magnesium batteries
PB4	Small silver-zinc batteries and battery cell sections encased in a plastic container
PB5	Silver-zinc batteries encased in epoxy-type plastic with metal cases and attachments
PB6	Silver-cadmium batteries
PO2	Expanded hypo solution derived from the processing of photographic film and papers
PO3	Silver bearing sludge derived from cleaning out electrolytic silver recovery units
PO4	Photographic films and papers, including x-ray and other types of silver-bearing photographic film and paper
PO6	Exhausted chemical recovery cartridges used in recovery of silver from hypo solution by metallic displacement
PO7	Expended cyanide-based liquids, sludge, powder or salts derived from plating and/or de-plating operations. May contain gold, silver or platinum.
PO8	Expended acid-based liquids, sludge, powder, or salts derived from plating and/or de-plating operations. May contain gold, silver or platinum.
P13	High temp alloy containing precious metals, such as stator vanes, aircraft engine exhaust cones and aircraft panels. Excludes spark plugs, thermocouples and breakers.
P24	Segregated, but not sorted, electrical and electronic scrap containing precious metals.
P8A	Platinum family bearing and plated items, such as platinum plated electronic scrap, contact points/breakers and insignia.
P8B	Silver-bearing, washed and/or plated material such as silver-plated electronic scrap.
P8C	Gold-bearing and plated items such as used anodes, machine turnings, and gold-plated electronic scrap.
P8D	Silver-bearing dental amalgam, excluding unused silver pellets used to make amalgam.

ATTACHMENT 3 (Cont'd)

P8E	Sorted electronic scrap containing parts which are gold/silver/platinum bearing or plated and which contain small amounts of aluminum, iron and/or plastic. May include contacts, capacitors, circuit boards/cards, fuses and connectors.
P8F	Sorted scrap containing gold/silver/platinum with a predominant base metal other than copper. May include electronic modules which have a magnesium/aluminum base, are plated with silver inside and out and have the silver plating overlaid with gold plating or gold wash.
P81	Platinum-bearing spark plugs (usually from aircraft)
P83	Platinum-bearing thermocouples and magnetos

- P84 De-salter kits
- P85 Gold-plated or washed buttons
- P86 Gold-filled eyeglasses frames
- VGM Gold-bearing material such as powder, salts, foil, leaf, pellets, dental castings, brazing alloys, dental lingual bars or alloy gold wire.
- VPM Platinum family-bearing material such as dental alloys, scraps, sweepings, jewelry, laboratory ware and wire.
- VSF Metallic silver flake derived from electrolytic processing of hypo solution
- VSM Silver-bearing material consisting of used anodes, drillings from anodes and grain silver, wire for welding or brazing and all other silver with 90 percent or better purity. Includes unused silver pellets for dental amalgam.