

APPENDIX 4-A

STORAGE OF JEWEL BEARINGS

1. *Description*

a. Jewel Bearings are tiny components made of synthetic corundum (aluminum oxide) – synthetic sapphire or ruby components. Classifications of jewel bearings received are as follows:

Group I	-	Instrument Ringstones
Group II	-	Cup Jewels
Group III	-	Instrument Endstones
Group IV	-	Vee Jewels
Group V	-	Watch Ringstones
Group VI	-	Marine Chronometer Rings
Group VII	-	Watch Endstones
Group VIII	-	Watch Pallet Stones
Group IX	-	Watch Jewel Pine

b. When acquired, jewel bearings shall meet Purchase Specification P-25-R2.

2. *Packaging.* Jewel Bearings are stored in onion skin paper packets which are placed in a commercial type jewel bearing envelope. The envelopes are placed into a fiberboard box conforming to Mason type, universal box number, R4, or equivalent, with the approximate dimensions, 5" x 3-1/2" x 1-7/8".

3. *Marking*

a. Jewel bearings shall be marked as follows:

- (1) Stockpile Classification (Group and Category)
- (2) Name of Manufacturer, Drawing and Part Number
- (3) Name of Jewel Bearing Contained Therein
- (4) Hole Size
- (5) Diameter
- (6) Thickness
- (7) Visual Inspection, Magnification (ie: 30X or 18X Magnification)
- (8) Date Produced
- (9) Contractor's Lot Number Under This Contract

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(10) Name of Producer

b. The fiberboard boxes shall be marked with the following:

- (1) Contract No.
- (2) Partial No.
- (3) Jewel Bearing Description
- (4) Group
- (5) Category
- (6) Drawing No.
- (7) Lot No.'s
- (8) Unit Quantity in Envelopes
- (9) Total Quantity in Box
- (10) Magnification Power

4. *Storage*

- a. All Jewel Bearings are stored in a dry, unsprinklered security vault or secured warehouse space.
- b. Segregation in storage will be by group and class.
- c. Stacking will be on multi-tiered metal shelving. Only one group and/or class is permitted on a single shelf. A complete description of the group and/or class on a shelf will be indicated on a card which shall be prominently displayed and secured to each shelf. DNSC Form 41 will be used for this purpose.
- d. To facilitate storage, fiberboard boxes of the same group and/or class can be consolidated and stored in a cardboard box. Complete description of the contents shall be indicated on a packing list affixed to the box.

5. *Precautions To Be Taken*

- a. *Health.* None.

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b. *General.* When handling, shipping, or storing any Jewel Bearings, extreme care shall be used at all times to make sure that no material is lost or stolen. Accountability will be maintained at all times.

6. *Security*

a. All boxes and/or cardboard boxes used for storage of the bearings are to be sealed at time of placement of the bearings into the container in order to maintain the integrity of the contents.

b. Entry into vault areas for the purposes of shipments, inventory, or qualitative maintenance inspections will be documented by issuance of custodial reports.

c. All shipments will be accomplished as high security cargo. Hand to hand signature with pick-up and delivery within the doors of the respective premises for each transaction is required.

d. Under no circumstances shall Jewel Bearings be moved from their original place of storage without prior authorization from the DNSC-OL.

FOR ADDITIONAL INFORMATION ON THIS COMMODITY REFER TO THE MATERIAL SAFETY DATA SHEET OR THE MOST RECENT PURCHASE SPECIFICATION.