

1. **MANDATORY CONTRACTOR INSPECTION SYSTEM:** The inspection system identified in FAR clause 52.246-2, Inspection of Supplies - Fixed Price, applies. The inspection system shall, as a minimum, encompass all tests and examinations specified below. Records of all these examinations and tests shall be maintained by the contractor for a period of at least four years after final contract delivery.

2. **CALIBRATION REQUIREMENTS:** Contractor's inspection and test equipment utilized in determining conformity of supplies to contract requirements shall have a current valid calibration traceable to National Institute of Standards and Technology (NIST). This calibration is to have been performed within the past 12 months. The contractor shall maintain sufficient documentation proving continuing equipment accuracy and control throughout the established interval.

3. **INSPECTION AND TEST**

a. The contractor shall perform or have performed all inspections, examinations, and tests required to substantiate that the supplies provided under the contract conform to the technical requirements for the items cited in the contract. Unless otherwise stated, classification of characteristics in the determination of critical, major, and minor defects is the responsibility of the contractor.

b. Sampling for inspection and acceptance shall be in accordance with ANSI/ASQC Z1.4-1993. If the contractor elects to use an alternate sampling plan, it must be approved by the Procuring Contracting Officer (PCO), and not have been previously determined to be insufficient for the Government's purpose. Acceptable Quality Levels (AQLs) do not apply.

c. **Definition of defects**

1. **Critical Defect** - a defect that is likely to result in unsafe conditions for individuals using, operating, maintaining, or otherwise depending upon the item. Also, a defect that is likely to prevent the required level of performance of the tactical function of major end items; such as aircraft, communication systems, land and

space vehicles, missiles, ships, surveillance systems, or major part thereof.

2. Major Defect - a defect other than critical, that is likely to result in failure, or to reduce the usability of the item for its intended purpose.

3. Minor Defect - a defect other than critical or major, that is not likely to reduce the usability of the item for its intended purpose. Also, a defect that is a departure from established standards, but has little or no affect on the performance of the item.

d. All critical defect type characteristics shall be identified and inspected and/or tested on 100% of the items within a lot for a lot size up to and including 1250 pieces. Sample size shall be 1250 for all lot sizes over 1250 pieces.

e. Visual/Dimensional Inspections: Except as noted above in paragraph d, sample sizes shall be determined in accordance with inspection level Table II, single sampling for normal inspection. Any departure from a specified requirement shall be classified as a defect. Any one defect shall be cause for rejection of the entire lot or shipment quantity.

f. End Item Tests (if applicable): Except as noted above in paragraph d, sample sizes shall be determined in accordance with inspection level Table II, single sampling for normal inspection. Any departure from a specified requirement shall be classified as a defect. Failure of any one sample unit to pass any test shall be cause for rejection of the entire lot or shipment quantity.

g. Examination of Preparation for Delivery: The inspection level shall be S-2. An examination of preservation, packaging, packing and marking shall be performed to determine compliance with contract requirements. Any noncompliance with contractual requirements shall be cause for rejection of the entire shipment quantity.

4. Exclusion of Mercury:

a. Supplies furnished under this contract shall not contain functional mercury. The presence of functional

mercury shall be cause for rejection of the supplies. Functional mercury is that mercury compound contained in a component, without the presence of which, the component would fail to operate properly.

b. If the inclusion of metallic mercury is required as a functional part of the material furnished under this contract, the contractor shall obtain written approval from the PCO before proceeding with manufacture. The contractor's request shall explain in detail the requirements for mercury; identify specifically the parts to contain mercury; and explain the method of protection against mercury escape. Such a request will be forwarded directly to the PCO with a copy to the applicable Government Quality Assurance Representative (QAR). Upon approval by the PCO, the vendor will provide a "Warning label" stating that metallic mercury is a functional part of the item and will include name and location on that part. Marking shall be in accordance with MIL-STD-129N.

c. Supplies furnished under this contract shall not be contaminated by mercury or mercury compounds. The existence of external mercury contamination may be determined as described in the testing portion of this document.

5. TESTING: Enclose the supplied item in an airtight container, such as a polyethylene bag (the air volume inside the container should be approximately twice the volume of the item).

a. Place the bag in an oven at 125 degrees F, plus or minus 5 degrees (55 degrees C, plus or minus 3 degrees) for one hour.

b. Sample the trapped air. If the mercury vapor concentration is 0.01 MG/M³ or more, the material is considered to be contaminated insofar as the requirements of this contract are concerned.

c. An alternate procedure consists of enclosing the supplied item in a close-fitting polyethylene bag or other airtight container for 8 hours at room temperature of 76 degrees F, plus or minus 10 degrees F, (24 degrees C, plus or minus 5 degrees C). Sample the trapped air. If the mercury vapor concentration is 0.01 MG/M³ or more, the

material is considered to be contaminated insofar as the requirements of this contract are concerned.

TOTAL P.04