

FLYSHEET AN-3 EXCLUSION OF MERCURY

The supplies furnished under this contract shall contain no metallic mercury or mercury compounds and shall be free from mercury contamination, i.e., during the manufacturing process, tests, or inspections, the supplies offered shall not have come in direct contact with mercury or any of its compounds nor with any mercury containing devices employing only a single boundary or containment. (A single boundary of containment is one which is not backed by a second seal or barrier to prevent contamination in event of rupture of the primary seal or barrier.) Mercury contamination of the supplies will be cause for rejection of the material.

If there is reasonable cause to suspect the supplies of being contaminated by mercury, the following test may be used to determine whether contamination by metallic mercury exists: Enclose the equipment in a polyethylene bag or close-fitting air-tight container and place in an oven at $125^{\circ}\text{F} \pm 5^{\circ}\text{F}$ for one hour. Sample the trapped air and if mercury vapor concentration is 0.01 mg/cu meter or more, the material is mercury contaminated insofar as the requirements of this contract are concerned. Mercury vapor concentration can be determined with a mercury vapor detector such as a portable General Electric Vapor Detector (catalog number 8257557G-3), Beckman Instruments Model K-23, or other instruments that have equivalent range and capabilities. It should be noted that certain vapors such as benzene interfere with this type of mercury vapor detector and that the detector should never be zero adjusted in any suspect atmosphere.

If the inclusion of metallic mercury or mercury compounds is required as a functional part of the material furnished under this contract, Supplier shall request Buyer's written approval before proceeding with manufacture. The 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. Upon approval by Buyer, the Supplier will provide a "Warning Plate" as prescribed by Buyer which will include a statement that mercury is a functional part of the item and will include name and location of that part.

If and to the extent that this order calls for work to be performed by Supplier on a submarine or in the nuclear plant of a surface ship, Supplier, in connection with such work, shall not bring into or utilize in the submarine or nuclear plant of surface ship any equipment, instrument or other device containing metallic mercury or mercury compounds, unless such equipment, instrument or device has been approved by the Naval Ship Systems Command or its authorized representative for use in Submarine and/or nuclear plants of surface ships.

By acceptance of this order, Seller covenants that:

- a. The supplies to be furnished under this contract will contain no metallic mercury or mercury compounds.
- b. Supplier will take reasonable steps to ensure that the supplies furnished under this contract are not contaminated with metallic mercury or mercury compounds.

END