

CDRL attachment for NSN 6670-01-381-4455

- 1.0 Product Conformance: The products provided shall conform to the producer's own drawings, specifications, standards, and quality assurance practices and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance. Minor changes to the commercial product, with respect to ruggedizing and environmental suitability and protection shall be permitted, subject to the approval of the procurement office, to satisfy the requirements of this requirement.
  
- 2.0 Installation and Demonstration: If required by the end user, the contractor shall be responsible for user orientation of the equipment at the designated Air Force facility and demonstration that the equipment is ready for use. Installation and demonstration is projected to take one day. The cost for user orientation and/or demonstration shall be at no additional cost to the government.
  
- 3.0 Market Acceptability: The following market acceptability criteria are necessary to document the quality of the product to be provided under this requirement.
  - 3.1 The manufacturer of the item shall have been producing a product meeting these requirements for at least 5 years.
  - 3.2 The manufacturer of the item shall have sold at least 250 units meeting these requirements to the government and/or the commercial market over the past 2 years.
  - 3.3 Alternative offers: A current, complete instrument with all items required for use, shall be offered/provided. If an alternative/replacement item is offered, descriptive literature (commercial catalogs, specification sheets, etc.) shall be submitted with the quote, for review and evaluation by the cognizant engineer who will coordinate qualifying the instrument with the end user. If the instrument has not been purchased previously by the government and meets the evaluation process, the instrument shall be subjected to first article testing.
    - 3.3.1 First Article Inspection: When a first article is required, first article inspections shall be performed on one scale except that the unimproved surfaces test shall be performed using four or more scales, as required. This inspection shall include the examination of 3.3.6 through 3.3.6.3 and the test of 3.3.7 through 3.3.16. A test report shall be prepared in accordance with MIL – STD – 831.
    - 3.3.2 When first article inspection is required, the contracting officer shall provide specific guidance to offerers whether the item(s) shall be a preproduction sample, first article sample, a first production item, a sample selected from the first -- production items, a standard production item from the contractor's current inventory, and the number of items to be tested as specified in 3.3.1. The contracting officer shall include specific instructions in acquisition documents regarding arrangements for examinations, approval of first article test results, and disposition of first articles. Invitations for bids shall provide that the Government reserves the right to waive the requirement for samples for first article inspection to those bidders offering a product which

has been previously acquired or tested by the Government, and that bidders offering such products, who wish to rely on such production or test, must furnish evidence with the bid that prior Government approval is presently appropriate for the pending contract. Bidders shall not submit alternate bids unless specifically requested to do so in the solicitation.

- 3.3.3 Quality Conformance Inspection: Quality conformance inspection shall include the examination of 3.3.4 and the tests of 3.3.6.3 and 3.3.13.
- 3.3.4 Examination: This element of inspection shall encompass all necessary visual examinations and demonstrations. Any redesign or modification of the contractor's standard product to comply with the specified requirements, or any necessary redesign or modification following failure to meet the specified requirements shall receive particular attention for adequacy and suitability. Noncompliance with any specified maximum efficiency shall constitute cause for rejection.
- 3.3.5 Documentation: Documentation shall be examined to determine compliance with the requirements specified in A-A-59732, section 2.1 and 2.12 and as required to support the examinations and demonstrations of 3.3.6 and 3.3.6.1 of this specification.
- 3.3.6 Examination: The scale shall be examined to determine compliance with the requirements specified in 2.2, 2.3, 2.4, 2.6, 2.11, 2.12, and 5.2 of this specification that are not verified by demonstration or test.
  - 3.3.6.1 Demonstrations: The ease of repair or replacement of the handle, (reference A-A-59732, section 2.2), portability (reference A-A-59732, section 2.6), and repair and calibration (reference A-A-59732, section 2.11) shall be demonstrated.
  - 3.3.6.2 Methods of Inspection: Each scale shall be subjected to the following tests. Noncompliance with any requirement shall be cause for rejection.
  - 3.3.6.3 Inaccuracy: The scale shall be subjected to test loads of 2,000, 5,000, 10,000, 15,000, and 20,000 pounds. The indicated reading inaccuracy shall be in accordance with A-A-59732, section 2.4.
- 3.3.7 Repeatability: The inaccuracy test, 3.3.6.3, shall be repeated 10 times. The indicated reading inaccuracy for all loads shall be as specified (reference A-A-59732, section 2.4).
- 3.3.8 Tilted Position: The scale shall be placed longitudinally on a surface with a 5 degree, minimum, slope and subjected to the inaccuracy test of 3.3.6.3. The test shall be repeated with the scale placed laterally on the surface.
- 3.3.9 Low Temperature Test: The scale shall be subjected to a temperature of  $-25^{\circ}$  F for four hours and then allowed to stabilize at a  $-15^{\circ}$  F. It shall be removed from the chamber and immediately subjected to the repeatability test of 3.3.7 or subjected to the test while in the chamber (reference A-A-59732, section 2.8.1).

- 3.3.10 High Temperature Test: The scale shall be subjected to a high temperature of + 135<sup>0</sup> F for four hours and then allowed to stabilize at + 125<sup>0</sup> F. It shall be removed from the chamber and immediately subjected to the repeatability test of 3.3.7 or subjected to the test while in the chamber (reference A-A-59732, section 2.8.1).
- 3.3.11 Water: The scale shall show no evidence of internal leakage when submerged in 6 inches of water for a period of 15 minutes (reference A-A-59732 section 2.8.2).
- 3.3.12 Dust: The scale shall be subjected to the test requirements of Method 510.2 of MIL – STD – 810, procedure 1, Steps 1 through 4. The air velocity shall be a minimum of 300 feet per minute for a period of 15 minutes. The scale shall show no evidence of internal dust deposits after disassembly (reference A-A- 59732, section 2.8.3).
- 3.3.13 Overload: The scale shall be subjected to a minimum of 30,000 pounds. The scale shall show no signs of structural damage and shall require no more than routine calibration to restore its original accuracy. The scale shall then be subjected to the inaccuracy test of 3.3.6.3 (reference A-A-59732, section 2.9).
- 3.3.14 Unimproved Surface: A vehicle that applies a per- scale load of a minimum of 5,000 pounds, on at least two scales, shall be weighed in sandy soil of medium density without requiring additional base supports. The vehicle shall then be weighed on a level concrete surface. The total reading on the uneven and level surfaces shall be equal within + / - 1 percent (reference A-A-59732, section 2.4).
- 3.3.15 Rollover: The vehicle used in the unimproved surface test shall be driven longitudinally and laterally over the scale and over only the digital display and handle. There shall be no evidence of any damage (reference A-A-59732, section 2.4).
- 3.3.16 Inspection of Packaging: The packaging, packing, and marking shall be inspected to verify conformance with the requirements of A-A-59732, section 5.0.

#### 3.4 Serviceability, Reliability, and Quality of Materials:

- 3.4.1 One copy of the commercial operation and maintenance manual(s) shall be shipped with the equipment. One additional copy of the operation and maintenance manual shall be shipped to the cognizant engineer at no additional cost to the government. The address for the cognizant engineer is found in 3.4.2.
- 3.4.2 All supplied items shall carry a standard commercial warranty on parts and labor. Information on warranty duration and expiration date, conditions and point of contact shall be shipped with each unit. One additional copy of the warranty information shall be shipped to the cognizant engineer at no additional cost to the government. The address for the cognizant engineer is; FSC 6670 Engineer, WR-ALC/LEEG, 295 Byron Street, Robins AFB, GA 31098-1611.