

BAR CODE MARKINGS

Bar Code Markings are required in accordance with the latest revision of MIL-STD-129 and ISO/IEC 16388 - Information Technology - Automatic Identification and Data Capture Techniques - Bar Code Symbology Specification - Code 39.

**ELECTRONIC FABRICATION: REQUIREMENTS FOR SOLDERED ELECTRICAL AND ELECTRONIC ASSEMBLIES
OCT/2014**

1. Notwithstanding any other provision contained in any part of this contract to the contrary, the minimum requirements/standards for soldering electrical and electronic assemblies shall be the nonmilitary joint industry standard, ANSI/J-STD-001, Class 3. The revision of ANSI/J-STD-001 in effect on the effective date of the contract shall govern the hardware produced hereunder. A copy of ANSI/J-STD-001 may be obtained from the Institute for Interconnecting and Packaging Electronic Circuits (IPC), 2215 Sanders Road, Northbrook, IL, 60062-6135, telephone number (847) 509-9700, fax number (847) 5099798.
2. The contractor shall establish and maintain an electronic/electrical parts control program and shall maintain and make available to the Government records and data which will provide visibility and traceability of all parts used in the production of the equipment under this contract. This selection of parts shall not be construed to relieve the contractor of meeting specified performance of the end item in which the part is used.
3. The Technical Data Package (TDP) shall serve as the baseline Program Parts Selection List (PPSL) and the parts and sources listed therein are the standard parts and sources. A Non Standard Part is defined as a part or source other than that cited in the PPSL. When the contractor desires to use a part or source other than those cited in the PPSL, the change must be approved by the Government via a Request for Deviation (RFD) as defined elsewhere in this contract. Failure on the part of the contractor to submit such RFDs may result in the replacement of the nonstandard part with the standard part by the Government at the contractor's expense for all affected items.
4. The contractor shall provide objective evidence such as form, fit, function, and interchangeability data that shows the proposed part complies with the requirements of applicable parts documentation. The RFD shall detail the technical justification for the use of the part and advantages of the nonstandard part, if any. Compare the nonstandard part to the standard part whose characteristics are nearest to those required for the application. Include, when applicable:
 - a. Part Number and Source
 - b. Size and weight data.
 - c. Electrical and mechanical characteristics
 - d. Reliability (with data if requested)
 - e. Availability of the standard part (delivery schedules, still available etc.)
 - f. Supplemental data such as existing control drawings, specifications, vendor data sheets, and other pertinent data.

Data need not be furnished for nonstandard parts covered by documents listed in the Department of Defense Index of Specifications and Standards (DoDISS) or Standardized Military Drawings (SMD).

5. The Contractor shall maintain a Lead Free Control Plan (LFCP) and make available to the Government upon request. The requirement for a Lead Free Control Plan shall be flowed down to suppliers of equipment that may include lead-free materials. The LFCP shall follow the guidelines set forth in GEIASTD-0005-1, "Performance Standard for Aerospace and High Performance Electronic Systems Containing Lead- Free Solder" or its equivalent. In addition, the LFCP shall also include tin whisker mitigation plans in accordance with GEIA-STD-0005- 2, "Standard for Mitigating the Effects of Tin Whiskers in Aerospace and High Performance Electronic Systems" or its equivalent, at control level 2C or equivalent. The Contractor should include in the LFCP any special design considerations, manufacturing process controls, test and qualification requirements, quality inspection and screening, marking and identification, maintenance and repair processes, and other steps taken to mitigate risk.

6. The Contractor shall prepare, or update existing, Counterfeit Risk Management Plan and make available to the Government upon request. The Plan shall meet the requirements of SAE AS5553 for electronic items. The Contractor shall procure parts from original manufacturers or the original manufacturer's franchised distributors. Contractors shall report counterfeits and suspected counterfeits to the Government and in the Government Industry Data Exchange Program (GIDEP), in accordance with the GIDEP Operations Manual, SO300-BT-PRO-010.

PRODUCTION LOT ACCEPTANCE TEST (PLT) - GOVERNMENT TESTED OCT/2014

(a) The Contractor shall deliver 5 units of Lot/Item 0001AA within 180 calendar days from the date of this contract to the Government at (W31P0W) PR W0H9 US ARMY AVIATION AND MISSILE COMMAND, REDSTONE TECHNICAL TEST CENTER, COTTONWOOD ROAD BLDG 8022 MF4500, REDSTONE ARSENAL, AL 35898-8052 for Production Lot Test (PLT). If the quantity required for PLT is less than the actual production quantity, the sample(s) to be shipped shall be selected at random during manufacture by the DCMA QAR. The shipping documentation shall contain this contract number and the Lot/Item identification. Copies of all available in-process documentation to include copies of Instruction Letters, Inspection Sheets/records, Material Test Results, and Certificates of Compliance shall be included with the sample(s) shipment.

(b) PLT sample(s) must meet all the requirements of the Technical Data Package (TDP) and all other contractual requirements. If the entire lot is required for testing, delivery of the total quantity required herein shall be accomplished in no more than two (2) shipments. Delivery in one (1) shipment is desirable; however, when two (2) shipments are necessary, fifty percent (50%) or more of the total quantity shall be included in the first shipment, and the remaining quantity shall be included in the second shipment.

(c) The Contracting Officer will notify the Contractor, in writing, of the acceptance or rejection of the Production Lot Test sample(s). The notice of acceptance shall not relieve the Contractor from complying with all requirements of the specifications and all other terms and conditions of this contract. A notice of rejection shall cite reasons for the rejection.

(d) If the PLT sample(s) is/are rejected, the Government may choose to have the contractor remedy the non-conformances found on the product by rework when appropriate, or require the contractor to provide newly manufactured product for inspection. The Contractor, upon Government request, shall make any necessary changes to meet the requirements of this contract. The Contractor shall furnish any reworked or newly manufactured PLT sample(s) to the Government as appropriate, under the terms and conditions and within the time specified by the Government. The Government reserves the right to require an equitable adjustment of the contract price for any extension of the delivery schedule and/or for any additional costs to the Government related to these inspection retests.

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(e) The Government reserves the right to reject any lot in which one or more defective units of production are found. The Government, at its discretion, may elect to perform a 100 percent screen on a lot and accept only those items that are conforming to all contract requirements. Under no circumstances shall the Government accept or be obligated to accept known defective hardware as a part of any lot.

POINT OF PRESERVATION, PACKAGING, PACKING AND MARKING OF SUPPLIES

Preservation, packaging, packing and marking of supplies will be performed at the following location: (If other than the location set forth in block 9, page 1 of this purchase order): (buyer fill-in)

-1-

-2-

-3-

REVISIONS TO DRAWINGS/PART NUMBERS

(a) Sources in receipt of this solicitation are requested, at no cost to the Government, to immediately notify the Contracting Officer if they are aware of any change(s)/revision(s) to the drawing(s) or part number(s) in this solicitation which have been approved by the Government for implementation. Notification of part number changes shall be supported by data which indicates the type of change, approving authority as required by ANSI EIA 649 MIL-STD-973 and date and method of submittal of provisioning documentation and drawings.

If complete data package has not been previously provided, the contractor shall, at no direct cost to the Government, immediately submit applicable drawings, along with a copy of the approval change authority, to the Contracting Officer, at the office symbol and mailing address listed in the "ISSUED BY" block on page one (1) of this document. The minimum acceptable data includes the next higher assembly and the item of Supply Detail Drawings which will allow provisioning, National Stock Number assignment and updating of AMCOM's data records.

(b) The contractor hereby verifies previous contractual submission of technical data:

Contract No.: _____

Contractor: _____

Explanation of Data Rights: _____

(c) The Government is not by this request soliciting, nor is the Government liable for cost incurred by

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the offeror in preparing or developing modifications, deviations, waivers, or other changes to drawings or part number(s). Furthermore, this request does not authorize changes to the drawing(s) or part number(s) for this acquisition, another contract, or for any other purpose. Offerors performing any contract awarded as a result of this solicitation must comply with the drawing(s) and specifications as set forth herein, unless this solicitation is amended or any resulting contract is modified by the Contracting Officer.

- (d) All proposed part number changes shall be submitted pursuant to the requirements of the clause entitled, "Engineering Change Proposal (ECP), Value Engineering Change Proposal (VECP), Request for Deviation (RFD), and Request for Waiver (RFW) (USAAMCOM).
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WOOD PACKING MATERIALS REQUIREMENTS

A. Wood packaging material (WPM) means wood pallets, skids, load boards, pallet collars, wooden boxes, reels, dunnage, crates, frame and cleats. The definition excludes materials that have undergone a manufacturing process, such as corrugated fiberboard, plywood, particleboard, veneer, and oriented strand board (OSD).

B. All Wood Packaging Material (WPM)) acquired by DOD must meet requirements of International Standards for Phytosanitary Measures (ISPM) 15, "Guidelines for Regulating Wood Packaging Materials International Trade." DOD shipments inside and outside of the United States must meet ISPM 15 whenever WPM is used to ship DOD cargo.

(1) All WPM shall comply with the official quality control program for heat treatment (HT) or kiln dried heat treatment (KD HT) in accordance with American Lumber Standard Committee, incorporated (ALSC) Wood Packaging Material Program and WPM Enforcement Regulations (see <http://www.alsc.org/>).

(2) All WPM shall include certification/quality markings in accordance with the ALSC standard. Marking shall be placed in an unobstructed area that will be readily visible to inspectors. Pallet markings shall be applied to the stringer or block on diagonally opposite sides of the pallet and be contrasting and clearly visible. All containers shall be marked on a side other than the top or bottom, contrasting and clearly visible. All dunnage used in configuring and/or securing the load shall also comply with ISPM 15 and be marked with an ALSC approved DUNNAGE stamp.

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C. Failure to comply with the requirements of this restriction may result in refusal, destruction, or treatment at entry. The Agency reserves the right to recoup from the Contractor any remediation costs incurred by the Government.

D. Replacement Preservative for Pentachlorophenol

If packaging requirements of this contract specify the use of wood products and a preservative is required, Pentachlorophenol, commonly referred to as "Penta" or "PCP" is prohibited. Replacement preservatives are 2 percent copper naphthenate, 3 percent zinc naphthenate or 1.8 percent copper 8 quinolinolate.

(1) Heat Treatment: Boxes/pallets and any wood used as inner packaging made of nonmanufactured wood shall be heat-treated. All non-manufactured wood used in packaging shall be heat treated to a core temperature of 56 degrees Celsius for a minimum of 30 minutes. The box/pallet manufacturer and the manufacturer of wood used as inner packaging shall be affiliated with an inspection agency accredited by the board of review of the American Lumber Standard Committee. The box/pallet manufacturer and the manufacturer of wood used as inner packaging shall ensure traceability to the original source of heat treatment.

(2) Marking: Each box/pallet shall be marked to show the conformance to the International Plant Protection Convention Standard. The quality mark shall be placed on both ends of the outer packaging, between the end cleats or end battens: on two sides of the pallet. Foreign manufacturers shall have the heat treatment of non-manufactured wood process verified in accordance with their National Plant Protection Organization's compliance program. In addition, wood used as dunnage for blocking and bracing shall be ordered with ALSC certified marking for dunnage or the markings may be applied locally at two foot intervals.