

**Solicitation and Purchase Order Text (Controls Inc.)**

Electronic Systems Procurement Procedure No: **210.1**

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LQ2

**CERTIFICATE OF CONFORMANCE**

**A CERTIFICATE OF CONFORMANCE IS REQUIRED WITH EACH SHIPMENT AGAINST EACH ITEM OF THIS PURCHASE ORDER. THE CERTIFICATION MUST BE SIGNED BY A DULY AUTHORIZED OFFICER OR QUALITY REPRESENTATIVE OF THE SELLER. THIS CERTIFICATE SHALL BE ESSENTIALLY AS OUTLINED BELOW AND MUST INCLUDE THE SAME REQUIREMENTS. THIS CERTIFICATE WILL GIVE THE MANUFACTURER'S DATE CODE FOR ALL SOLDERABLE ITEMS.**

**TO: BAE Systems DATE: \_\_\_\_\_**

**ATTN: RECEIVING INSPECTION**

**CERTIFICATE OF CONFORMANCE**

**BAE Systems PURCHASE ORDER NO. \_\_\_\_\_ ITEMNO/S.**

**SELLER CERTIFIES THAT:**

**THIS MATERIAL PROCESS AND PARTS FURNISHED ON THIS PURCHASE ORDER WERE PRODUCED IN CONFORMANCE WITH CONTRACTUALLY APPLICABLE GOVERNMENT AND/OR BAE Systems SPECIFICATIONS AS CALLED FOR ON ABOVE PURCHASE ORDER/OR FURNISHED BY AN AUTHORIZED DISTRIBUTOR OF A QUALIFIED A\MANUFACTURER.**

**SELLER \_\_\_\_\_**

**BY \_\_\_\_\_**

**MANUFACTURER'S DATE**

**CODE \_\_\_\_\_ TITLE \_\_\_\_\_**

**17-Mar-2004**

Solicitation and Purchase Order Text (Controls Inc.)

LQ3

**TEST DATA REQUIREMENTS**

**The Seller shall maintain data on file for a minimum of six (6) years which shall include the following:**

- 1. Each unit identified in such a manner so as to relate unit with data sheet (normally a serial number).**
- 2. Data sheets must indicate compliance with "Individual Test" section of the applicable specification and shall include the test parameters and actual readings obtained. Copies of specific test data shall be in the mail to BAE Systems within 24 hours of receipt of request.**

**07-Feb-2003**

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LQ4

**MATERIAL CERTIFICATION**

**TO: BAE Systems**

**DATE \_\_\_\_\_**

**ATTN: RECEIVING INSPECTION**

**BAE Systems PURCHASE ORDER NO. \_\_\_\_\_ ITEM NO./S**

**MATERIAL CERTIFICATION**

**SELLER CERTIFIES THAT:**

**THE MATERIALS AS FURNISHED ON THIS PURCHASE ORDER ARE IN CONFORMANCE WITH APPLICABLE GOVERNMENT AND/OR BAE Systems SPECIFICATIONS AS CALLED FOR ON ABOVE PURCHASE ORDER, AND CHEMICAL AND/OR PHYSICAL TEST REPORTS ARE ON FILE SUBJECT TO EXAMINATION AT ANY TIME.**

**SELLER \_\_\_\_\_**

**BY \_\_\_\_\_**

**TITLE \_\_\_\_\_**

**07-Feb-2003**

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**LQ6**

**SELLER QUALITY CONTROL SYSTEM**

**6-1, CATEGORY I – Seller shall provide and maintain an inspection system acceptable to BAE Systems. (Seller may elect to Maintain a system meeting CATEGORY II or III requirements.)**

**A. If the product supplied to BAE Systems has been manufactured in whole or in part by Seller, Seller’s inspection System shall, as a minimum:**

- 1. Assure that material submitted to BAE Systems for acceptance has been inspected and tested, and conforms to purchase order requirement.**
- 2. Provide for maintenance of documented evidence of the inspection and test results. Such evidence shall be available for review by BAE Systems.**
- 3. Provide for the maintenance of records attesting to the adequacy and accuracy of all test and measurement equipment. The calibration of measuring and test equipment shall be in conformity with MIL-STD-45662, ISO 10012, or ANSI Z540-1; such records shall be available for review by BAE Systems.**
- 4. Require manufacturer’s date code on all solderable items.**

**B. If the Seller is a distributor of manufactured product, Seller’s inspection system shall, as a minimum:**

- 1. Assure that product supplied to BAE Systems has been obtained by the Seller, only from the manufacturer designated by BAE Systems, and that records are maintained (and available for review by BAE Systems) attesting to this fact.**
- 2. Assure that material is received, stored, handled, and shipped to BAE Systems in such manner as to preclude damage, such as electrostatic discharge damage, age deterioration, or any other condition, which degrades the product quality/reliability.**
- 3. Assure that material supplied to BAE Systems is not material that has been returned to the Seller by any customer or Sellers, including BAE Systems, and is not material obtained from any other distributor, broker, etc.**
- 4. Require manufacturer’s date code on all solderable items.**

**C. Seller shall take positive corrective action to prevent continued shipment of material identified as nonconforming by BAE Systems or retained “as is” by BAE Systems. Seller shall determine the root cause of the nonconformance and shall make the necessary changes to his production and inspection to assure that elimination of the defect and shall document these changes and make such documentation available for review by BAE Systems. If corrective action cannot be taken by Seller, Seller shall notify BAE Systems of inability to correct the problem, and the reason why corrective action cannot be taken.**

**D. BAE Systems may perform reviews and evaluations as reasonably necessary to ascertain compliance with this requirement. BAE Systems has the right to inspect and test all material covered by this purchase order, at all places and times, including the period of manufacture. If BAE Systems performs inspection or test on the systems whether such material has been returned to Seller by BAE Systems premises of the Seller or a subcontractor, Seller shall furnish and require the subcontractor to furnish, without added charge, all reasonable facilities and assistance for the safe and convenient performance of these duties. Such inspection and verification rights shall also be extended to BAE Systems customer.**

**6-2, CATEGORY II – Seller shall maintain inspection system in conformance with mil-i-45208 and/or ISO 9003. Any change to your quality system which may affect inspection, conformity, or airworthiness shall be immediately forwarded to BAE Systems, attention PQA Department.**

**6-3, CATEGORY III – Seller shall maintain a quality control system in conformance with MIL-Q-9858 and/or ISO 9001/9002. Any change to your quality control system which may affect inspection, conformity, or airworthiness shall be Immediately forwarded to BAE Systems, attention PQA Department.**

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## LQ10

### **BAE Systems PWB PROCUREMENT SPECIFICATIONS/COUPONS**

**PQA-1000/2000, when drawing specifies IPC-6011 and IPC-6012, PQA-2000 applies to this order. When drawing specifies MIL-P-55110, PQA-1000 applies to this order. All microsections are to be supplied with each lot. Microsections will be returned to supplier via BAE Systems packing slip within 30 days.**

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## LQ11

### **DISTRIBUTORS/TRACEABILITY TO MANUFACTURER**

**Distributor shall identify the manufacturer for all supplies provided. Each mfr./date code shall be identified separately. Material shall be traceable to the actual manufacturing source. In the case of bulk items, this may be accomplished by bag and tag method.**

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## LQ13

### **CONTINGENT GOVERNMENT SOURCE INSPECTION**

**During performance on this order, your quality control or inspection system and manufacturing process are subject to review, verification and analysis by authorized government representatives. Government inspection or release of product prior to shipment is not required unless you are otherwise notified. You shall provide a copy of this purchase order to your government representative upon his request.**

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## LQ14

### **NON CONFORMING MATERIAL**

**When it is indicated that nonconforming product may have been supplied to BAE Systems, notification shall be made immediately to the buyer. Notification shall include sufficient traceability information to locate effected parts/ material. Notification shall also include corrective action implemented or in process.**

**The Seller is not authorized to deliver product dispositioned as repaired or use-as-is unless specifically authorized by BAE Systems' quality organization, if: The product is produced to BAE Systems' design, or the non conformance results in a departure from contractual requirements**

22-Feb-2006

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LQ15

**FIRST ARTICLE SAMPLES**

**A First Article inspection report must be submitted with the first shipment of any BAE Systems part number being manufactured for the first time, or lapse in production of more than two years, or change in manufacturing location or change in manufacturing process. Any subsequent ECO's incorporated by a purchase change order will require an addendum to the original first article which documents the affected changes.**

**When documenting the FAI, the Seller may use the forms contained with the SAE AS9102 specification or their equivalent, so long as the forms contain all the information required by SAE AS9102. The first article report must show compliance to all requirements, and actual dimensions/test results must be recorded.**

**Items produced by the supplier prior to BAE Systems' approval of the first article shall be at the suppliers risk. In the event of conflict between first article reports and this contract, the terms and provisions of the contract, including reference documents specified, shall take precedence.**

**This requirement does not apply to distributors or common off the shelf items produced to OEMs.**

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LQ18

**MIL-S-19500 REQUIREMENTS**

Seller shall maintain a quality system capable of the minimum controls consistent with the requirements of MIL-S-19500 for suppliers; this includes an inventory control system for JAN branded devices. Government access rights shall be provided as follows:

Device manufacturers – During performance on this order, your quality control or inspection system and manufacturing processes are subject to review, verification and analysis by authorized government representatives, including government sampling of lot traceability documentation when required. Government release of shipment is not required unless otherwise notified.

Other suppliers – During performance on this order, your control of lot traceability documentation and your inventory control for JAN branded electronic components are subject to review, validation and verification by an authorized government representative. Government release of shipment is not required unless you are otherwise notified.

The following shall accompany shipment:

**A. Manufacturer documentation:**

1. Manufacturer name and address.
2. Customer's or distributor's name and address.
3. Device type and product assurance level.
4. Lot identification code (including assembly plant code).
5. Inspection date and latest reinspection date.
6. Quantity of devices in shipment from manufacturer.
7. Statement certifying product conformance and traceability.
8. Signature and date of transaction.
9. If date coded 8406 or earlier, documentation shall be stamped with a DOD stamp.

**B. Distributor documentation for each distributor:**

1. Distributor's name and address.
2. Name and address of customer.
3. Quantity of devices in shipment.
4. Latest reinspection date, if applicable.
5. Certification that this shipment is a part of the shipment covered by the manufacturer's documentation.
6. Signature and date of transaction.

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LQ22

**ESD CONTROL PROGRAM**

Electronic parts and/or assemblies shall be protected from damage by electrostatic discharge during manufacturing, handling, packaging, and shipment in accordance with the requirements of MIL-STD-1686.

07-Feb-2003

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LQ27

**SOLDERABILITY CERTIFICATION**

By acceptance of this order, the supplier certifies that parts are solderable as defined in MIL-STD-2000A Para. 5.2.1.1.

07-Feb-2003

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LQ28

**CONTROL OF SUBTIER SPECIAL PROCESS SUPPLIERS**

Supplier shall control special process suppliers in accordance with ISO 9001 or MIL-STD-1535 paragraphs 1.2, 3, 4, 4.1, 4.2 or use BAE Systems/BAE Systems' customer approved special process suppliers.

07-Feb-2003

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LQ33

**SHELF LIFE MATERIALS**

When materials with limited shelf life are received at BAE Systems, we would expect to have 95% of the useful life remaining. BAE Systems will not accept materials with less than 75% shelf life without written authorization from the BAE Systems buyer. An example of justification for limited life would be: Material urgently needed, or material to be used within the specified shelf life remaining.

07-Feb-2003

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QA005

**SOLDERS AND SOLDERABILITY**

**I. Requirements - Unless otherwise required by the BAE Systems part/drawing specification, or documented in the purchase order, the following requirements apply. Any deviation from these requirements must be agreed to by BAE Systems.**

**A. Solderability**

Components and wires to be soldered shall meet the solderability requirements of an appropriate solderability test method per J-STD-002 or equivalent. J-STD-002 test methods are considered destructive and tested components shall not be supplied unless prior approval is obtained from BAE Systems. When a solderability inspection operation or pretinning and inspection operation is performed as part of the documented assembly process, that operation may be used in lieu of solderability testing. External terminations of devices incorporating magnetic windings shall meet these requirements, less steam aging. Printed wire boards shall meet the requirements of J-STD-003 or equivalent. The supplier shall establish a solderability testing schedule to ensure that parts are solderable upon receipt by BAE Systems. The schedule need not be lot-by-lot if the supplier has documented evidence that their testing schedule ensures solderable material.

**B. Component Termination Finishes**

1. Area-array components such as ball grid arrays (BGA's) or ceramic column grid arrays (CCGA's) shall have balls or terminations of tin/lead (SnPb) alloy. For other components, SnPb eutectic finish is preferred. Electroplated SnPb finishes shall be fused and shall conform to SAE-AMS-P-81728. For hot solder dipping, solder shall comply with J-STD-006 type Sn60Pb40, Sn63Pb37, or Sn62Pb36Ag2.
2. Alloys containing more than 5% bismuth (Bi) are not allowed. Bi alloys are not allowed over low expansion alloy base materials (e.g. Kovar, Alloy 42).
3. "Matte tin" (Sn) plating, alloys containing 5% or less Bi (when plated over copper), tin/silver (SnAg), and tin/silver/copper ("SAC") alloys are permissible if termination spacing is .018 inch or greater, or if there is a nickel barrier (Ni) over the base metal. For these finishes, a Ni barrier is required over brass base metal regardless of termination spacing.
4. "Bright tin" (Sn), silver (Ag), tin/copper (SnCu) alloys, and tin/nickel (SnNi) alloys are not allowed.
5. Unless prior approval is obtained from BAE Systems procurement representative, gold shall be removed from the to-be-soldered surfaces of surface mount components in accordance with J-STD-001, using alloys Sn60Pb40, Sn63Pb37, or Sn62Pb36Ag2.

**C. Soldering**

No Pb-free solder shall be used without prior approval from BAE Systems.

**II. Preferred Conditions - The following are preferred, but not required.**

- A. Components and component package labels should be marked with the finish code per J-STD-609.
- B. Gold should be removed from to-be-soldered surfaces of through-hole style components and terminals in accordance with J-STD-001, using alloys Sn60Pb40, Sn63Pb37, or Sn62Pb36Ag2. Solder cups and connector eyelet-style terminations are exempt from this constraint.

01-Apr-2011

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## QA010

### PRINTED BOARD REQUIREMENTS (SINGLE AND DOUBLE-SIDED RIGID DESIGNS)

Unless otherwise specified in the drawing, these requirements apply to single and double-sided rigid printed boards, with or without bonded heatsinks. QA010 requirements are not applicable to multilayer boards, see QA142, or flexible circuits, see QA155.

**NOTE:**Where the word "drawing" is used below, it indicates the Engineering drawing and all documents, associated files, and data referenced therein.

#### A. For all single and double sided boards:

1. Mark date of manufacture (YYWW format defined from 1 January) on the board surface (opposite the heatsink side if applicable).
2. Unless otherwise specified in the drawing, printed boards shall be packaged IAW IPC-1602, including a heat-sealed moisture barrier bag (MBB) with desiccant and HIC. Each moisture barrier bag may contain up to 10 printed boards of size 144 in<sup>2</sup> (per side) or greater, provided that boards are separated by slip sheets or other appropriate materials such as pink poly bags. Smaller boards may be packaged up to 25 per bag, with separators. Each moisture barrier bag shall be marked with the part number, date code, quantity, and serial numbers of the printed boards enclosed. Moisture content prior to packaging shall not exceed 0.2% by weight of the printed board, IAW IPC-1602. Moisture content may be assured by documented process controls or appropriate testing.
3. At the time of delivery to BAE Systems, printed boards shall meet solderability requirements of J-STD-003, Coating Durability Category 2.

#### B. Designs that specify M50TF3023, M50TF3024, and M50TF3027 use IPC-6012 Class 3 quality and performance requirements, and shall meet the following requirements that are found in those specifications:

1. Minimum Copper thickness in holes shall be 0.001 inch minimum.
2. Laminate material shall be GIN0280C1/C1B2C IAW MIL-S-13949, or its IPC-4101 equivalent.
3. Conductor width shall be no less than 0.015 inch (M50TF3024) or 0.025 inch (M50TF3023 & M50TF3027).
4. Conductor spacing shall be no less than 0.015 inch.
5. Conductor to board edge spacing shall be no less than 0.015 inch.

#### C. For single and double sided boards with bonded heatsinks that specify M50TF3023, M50TF3027, M50GB3003, or M50GB3174:

1. Any fusing or hot oil reflow operation shall be performed with the component side down.
2. After sand/deburr, all heatsink edges shall have a radius of 0.002 - 0.030 inch. Sample inspection shall be performed at up to 10x magnification.
3. After heatsink bonding, each part shall be Megger tested at 500vdc, and shall exhibit 10,000 megohms minimum insulation resistance between the unanodized flange of the heatsink and the solder-side printed board conductors. A conductive gasket sheet may be utilized to tie the solder-side conductors together during the test. If conductive surface is not available on the heatsink, contact the BAE Systems purchasing agent or design engineer for test instructions. The assembly may be dried 15 to 60 minutes at 200°F to 250°F prior to test.

4. After heatsink bonding, each part shall be checked for warpage per IPC-TM-650 method 2.4.22. Bow and twist shall not exceed 0.012 inch/inch.
5. Solder Float: test one completed board/heatsink assembly per lot per IPC J-STD-003 Test C, except float time shall be a minimum of ten seconds. There shall be no separation of the heatsink from the printed board.

20-JUL-2020

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QA014

**ELEMENT EVALUATION REQUIREMENTS**

The requirements of specification S-606 apply to this order.

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QA015

**SUPPLIER ESD CONTROL PROGRAM REQUIREMENTS**

1. The Supplier shall have a documented Electrostatic Discharge Control Program, to be submitted to BAE Systems upon request. ESD Control Program requirements shall be available for review by the supplier's personnel handling or transporting ESD sensitive items.
2. The ESD Control Program shall comply with ANSI/ESD S20.20 or other recognized industry standard such as MIL-STD-1686.
3. Any items identified as sensitive to ESD <100 volts HBM or <200 volts CDM shall be handled and transported in accordance with special requirements subject to approval by BAE Systems.

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QA016

**PACKAGING REQUIREMENTS FOR ESD SUSCEPTIBLE ITEMS**

All ESDS items shall be enclosed in static shielding packaging in accordance with ANSI/ESD S20.20 or MIL-STD-1686.

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## QA018

### **FIRST ARTICLE**

First Article Inspection and Test Requirements are to be followed as described in SAE AS9102, Aerospace First Article Inspection Requirement. When documenting the FAI, the Seller may use the forms contained with the SAE AS9102 specification or their equivalent, so long as the forms contain all the information required by SAE AS9102. This requirement does not apply for parts ordered to a military specification or commercial-off-the-shelf part number. The supplier agrees to retain objective evidence permanently, including records of the inspections and tests performed. Copies of such records shall be provided to the buyer upon request.

#### **Key Characteristics –**

Should a part be defined with having a Key Characteristic as noted in the product definition, the First Article Inspection Report shall include at a minimum a control plan including the following information:

- 1) Process Name / Location where characteristic is generated
- 2) Equipment, tools, etc. used in the process
- 3) Documented evidence of both the monitoring and controlling of the feature.

30-Mar-2010

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## QA020

### **ISO 9001**

The Supplier's Quality System shall comply with ISO 9001 as a minimum. The Supplier's Inspection System shall be subject to random audits and approved by BAE Systems Quality Representatives at all reasonable times for all shifts and locations in which articles are produced under this order. Unless otherwise specified in this order, Material Review board (MRB) is not delegated to the Supplier. All decisions to "Repair" or "Use-As-Is" and all "Standard Repair Procedures" utilized by the Supplier in the performance of this order require BAE Systems approval prior to implementation. Expressions used herein are as defined in MIL-STD-1520.

The Supplier shall comply with the additional "Quality Control Systems" requirements noted in the BAE Systems Terms & Conditions. The Supplier shall submit ECO/PCN to email address: [CompENG.PCN@baesystems.com](mailto:CompENG.PCN@baesystems.com) and copy Procurement/Sourcing Engineer, as appropriate.

03-Oct-2017

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**QA021**

**DELIVERY OF FIRST ARTICLE DOCUMENTATION PACKAGE**

First Article Inspection and Test Requirements are to be followed as described in SAE AS9102, Aerospace First Article Inspection Requirement. When documenting the FAI, the Seller may use the forms contained with the SAE AS9102 specification or their equivalent, so long as the forms contain all the information required by SAE AS9102. This requirement does not apply for parts ordered to a military specification or commercial-off-the-shelf part number. The supplier agrees to retain objective evidence permanently, including records of the inspections and tests performed. Copies of such records shall be provided to the buyer upon request.

When applicable as described in SAE AS9102, a copy of the complete First Article Characteristic Accountability and Verification data package shall accompany the next shipment of product. It shall be in a separate envelope from the normal shipping documentation and shall be clearly labeled "First Article Characteristic Accountability and Verification Data".

**Key Characteristics –**

Should a part be defined with having a Key Characteristic as noted in the product definition, the First Article Inspection Report shall include at a minimum a control plan including the following information:

- 1) Process Name / Location where characteristic is generated
- 2) Equipment, tools, etc. used in the process
- 3) Documented evidence of both the monitoring and controlling of the feature.

**04-Aug-2011**

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**QA022**

**CONTAINER MARKING**

Each individual (point of use) container (can, bottle, drum, spool, cartridge, spool, etc.) containing the material to be delivered hereunder, must be clearly and permanently marked per the following:

- (1) Date of manufacturer or ship date, whichever controls shelf life limitation
- (2) Expiration date
- (3) Specification or material control number (Designated on Purchase Order as "Item")
- (4) Traceability number (Batch/lot number, etc., if applicable)
- (5) Temperature storage category or range (if temperature sensitive)
- (6) NFPA (National Fire Protection Agency) labeling systems (when applicable for hazardous material)
- (7) Purchase agreement number. In addition, mark per the applicable specification. Forward all of the above information on the pack list or certification, with each shipment.

**12-May-2011**

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QA024

**Q91 / ISO 9001**

The supplier shall comply with the requirements of Q91 / ISO 9001, "Quality Systems - Model for Quality Assurance in Design / Development, Production, Installation and Servicing."

The Supplier shall comply with the additional "Quality Control Systems" requirements noted in the BAE Systems Terms & Conditions. The Supplier shall submit ECO/PCN to email address: [CompENG.PCN@baesystems.com](mailto:CompENG.PCN@baesystems.com) and copy Procurement/Sourcing Engineer, as appropriate.

02-Nov-2010

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QA025

**AS 9100**

The supplier shall comply with the applicable provisions/requirements of either AS/EN/JISQ 9100, "Quality Management Systems – Requirements for Aviation, Space and Defense Operations and/or ISO 9001, Quality Systems – Model for Quality Assurance in Design / Development, Production, Installation and Servicing," for OEM/OCM suppliers and/or AS/EN/SJAC 9120, "Quality Management Systems – Requirements for Aviation, Space and Defense Distributors" for Distributors. Note that methods for demonstrating compliance can include, but are not limited to, Quality Management System certification, second party audit, survey, etc.

Unless otherwise specified in this order, Material Review Board (MRB) is not delegated to the supplier. All decisions to "Repair" or "Use-As-Is" and all "Standard Repair Procedures" utilized by the Supplier in the performance of this order require purchaser approval prior to implementation.

The Supplier shall comply with the additional "Quality Control Systems" requirements noted in the BAE Systems Terms & Conditions. The Supplier shall submit ECO/PCN to email address: [CompENG.PCN@baesystems.com](mailto:CompENG.PCN@baesystems.com) and copy Procurement/Sourcing Engineer, as appropriate.

09-AUG-2018

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QA031

**QUALITY SYSTEM REQUIREMENT**

Seller is required to maintain a Quality System in compliance with SAE AS9100 Quality Management System, as amended from time to time, which is incorporated herein and made a part hereof by this reference. Buyer reserves the right to conduct surveillance at Seller's facility to determine that Seller's Quality System remains in compliance.



The Supplier shall comply with the additional "Quality Control Systems" requirements noted in the BAE Systems Terms & Conditions. The Supplier shall submit ECO/PCN to email address: [CompENG.PCN@baesystems.com](mailto:CompENG.PCN@baesystems.com) and copy Procurement/Sourcing Engineer, as appropriate.

02-Nov-2010

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QA032

**QUALITY SYSTEM REQUIREMENT**

Seller is required to maintain a Quality System in compliance with SAE AS9003 Quality Management System, as amended from time to time, which is incorporated herein and made a part hereof by this reference. Buyer reserves the right to conduct surveillance at Seller's facility to determine that Seller's Quality System remains in compliance.

The Supplier shall comply with the additional "Quality Control Systems" requirements noted in the BAE Systems Terms & Conditions. The Supplier shall submit ECO/PCN to email address: [CompENG.PCN@baesystems.com](mailto:CompENG.PCN@baesystems.com) and copy Procurement/Sourcing Engineer, as appropriate.

02-Nov-2010

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QA033

**CERTIFICATE OF CONFORMANCE (C OF C)**

A certificate of conformance (C of C) must be provided by the supplier of this purchase order. The C of C shall be submitted with each shipment and contain the following information:

- A) C of C issue date
- B) The manufacturer's name and (cage code/or address)
- C) Date code/serial number of manufactured material/parts
- D) Part number
- E) Part revision level
- F) Quantity shipped
- G) The purchase order number
- H) A statement confirming articles furnished to BAE Systems are in conformance with the purchase order requirements, engineering drawings & specifications

03-Apr-2006

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QA035

**APPROVED PROCESS SOURCES**

Seller must be listed as an approved processor or shall use approved processors listed in Boeing Document D1-4426, "Boeing-Approved Process Sources". The certification

accompanying each shipment must reference the name of the D1-4426 processor(s), their location, date processed, and the process(es) accomplished. Buyer approval of any processor shall not relieve Seller of Seller's obligation and liabilities under this contract. D1-4426 is available exclusively at the Boeing website, <http://www.boeing.com/companyoffices/doingbiz/d14426>.

For D1-4426 requirement questions and/or clarifications, the following Boeing website links apply or contact your BAE Systems Sourcing Engineer:

D1-4426 is required for execution of this contract when required as outlined per User Instructions & Processor Requirements. As reference in the noted Boeing website Frequently Asked Questions, the flow chart

(<http://active.boeing.com/doingbiz/d14426/appchart.pdf>) for D1-4426 User Instructions, Section 2, Scope depicts when approval in document D1-4426 is required by The Boeing Company to control special processes and materials. D1-4426 approval is not required for Vendor Parts not controlled by Boeing, BAE Systems, or other SDO (Standards Developing Organizations). D1-4426 section 2.2

<http://active.boeing.com/doingbiz/d14426/UserInstProcReq.cfm> defines additional criteria where D1-4426 approval is not required.

16-Feb-2011

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QA036

**CERTIFICATE OF COMPLIANCE: SCREENED ELECTRONIC COMPONENTS**

**THIS CLAUSE IS APPLICABLE TO THE BAE Systems DOCUMENTS THAT SPECIFY COMPONENT SCREENING, INCLUDING, BUT NOT LIMITED TO, 900-12471, 900-12472, 906-50037, AND 906-60069:**

**Seller shall provide a certificate of compliance with each shipment of a single part number. The C of C shall include as a minimum:**

**Total lot size and certification of tests performed.**

**Total quantity of parts shipped.**

**Total quantity of parts failed (electrical and mechanical).**

**Manufacturer's name and part number.**

**Manufacturer's part marking (if different than part number).**

**Manufacturer's lot date codes & quantity of each lot date code.**

03-Apr-2006

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QA037

**VERIFICATION OR ACCEPTANCE TEST DATA**

**Supplier shall include with each shipment a copy of verification or acceptance test data, in accordance with specified requirements. Test reports shall include:**

**Lot/batch/serial number identity of material or item tested,**

**Total lot quantity, quantity passed, quantity failed**

**Total quantity of parts shipped**

**Manufacturer name and part number, part marking if different  
Buyer part number**

**03-Apr-2006**

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QA039

**CERTIFICATE OF COMPLIANCE: ITEM BUY-BACK**

1. Seller will provide a Certificate of Conformance with each shipment that includes the following statement:

"I certify that on \_\_\_\_\_ (date) the \_\_\_\_\_ Company furnished the listed item(s) in accordance with Contract No. \_\_\_\_\_ and all applicable requirements. I further certify that all units are new, unused, and undamaged.

Item No. \_\_\_\_\_  
Serial Number \_\_\_\_\_  
Quantity \_\_\_\_\_

Signature \_\_\_\_\_

2. Seller shall provide an original Boeing Company 8130-3 with each item shipped.

03-Apr-2006

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QA043

**FABRICATED MATERIAL**

Material to be manufactured in accordance with the Outplant Procurement Manufacturing Specification (OPMS) sheets provided with this Purchase Order. A copy of the OPMS and a Certificate of Conformance shall accompany each shipment. Any blueprints and mylars provided for the manufacture of this material is the property of BAE Systems and must be returned immediately upon request.

03-Apr-2006

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QA044

**MANDATORY FAA/FAR REQUIREMENTS:**

1. **Traceability:**  
All products delivered to BAE Systems shall provide traceability to original manufacturer and lot, and/or date code. Supplier, at its option, must provide traceability by permanent marking on delivered product or certified documentation.
2. **Notice of Change:**  
Seller shall immediately notify BAE Systems in writing of any change in Quality Management Representative, Quality System procedures, or the manufacturing facility location of the contracted part number or assembly. Seller shall also notify BAE Systems of changes to product, materials, or manufacturing process, and obtain BAE Systems approval as required by contract.
3. **Notice of Noncompliant Product:**  
When the Supplier has detected delivery of nonconforming product, BAE Systems shall be promptly notified. Notification shall include description of nonconformity, all part numbers affected, quantities, and dates delivered.
4. **Right of Entry:**  
The Supplier shall allow BAE Systems authorized representatives, our customer authorized representatives, and/or regulatory agency personnel Right of Entry to determine and verify the quality of work, records and material at any place, including the plants of Supplier's subcontractors, all levels.
5. **Language/Currency:**  
All contractual documents, correspondence, invoices, notices, and other documents shall be in English. All prices shall be stated in and all payments shall be made in the currency of the United States of America (U.S. Dollars). No adjustments to any prices shall be made for changes to or fluctuations in currency exchange rates.

22-Feb-2010

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QA117

**AGE CONTROL**

Age controlled material must have 2/3 of its shelf life remaining at the time of shipment. Each shipment is to be identified with the date of manufacture and expiration date.

20-Aug-2001

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## QA118

### **C OF C**

Supplier shall supply with each shipment a signed or initialed Certificate of Conformance (electronically generated signatures or typed names are also acceptable). Suppliers utilized as a VMI (Vendor Managed Inventory) or OSS (On-Site Supplier) type program must retain the C of C's and provide a copy upon request within 24 hours.

When military specification parts are purchased through distribution and BAE Systems approved suppliers are listed on the Purchase Order, the distributor shall identify the approved BAE Systems CAGE Code of the parts supplied.

When parts are purchased through distribution to a military specification, a certificate of compliance traceable to the Original Equipment Manufacturer shall be supplied.

In addition; when applicable, the following information shall be provided as an aid for processing and validating material.

- Purchased Part Number
- Manufacturers' Part Number
- Manufacturer Identification (Manufacturer CAGE Code and/or Name)
  - Military specification part Manufacture CA Code is preferred
  - Commercial specification part Manufacturer Name is preferred
- Data Code(s)

In addition; when applicable, the following information should be provided as an aid for processing and validating material.

- Drawing Revision Level
- Lot, Batch or other Traceable Number
- Serial Number(s)
- Manufacturers' Part Marking Number - Component Parts i.e. IC's etc.

By making shipment under this order and providing certification, the supplier automatically certifies that the materials (except when furnished by the buyer) used in the items shipped and the processes applied to such items comply with all applicable drawings and specifications. Supplier shall include the objective evidence with each shipment when required per the applicable design. The supplier agrees to retain objective evidence, including records of the inspections and tests performed in the course of manufacturing, testing, inspecting, preserving, packaging and packing of said items. Copies of such records shall be provided to the procurement representative upon request. The seller shall not destroy, deface, nor dispose of any such records without the procurement representative's approval.

20-JUL-2020

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## QA137

### **IDENTIFICATION OF MANUFACTURER OF PRODUCT**

Reference SD137.

19-OCT-2018

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QA138

**MOISTURE SENSITIVE DEVICE PACKAGING**

Parts that are designated as moisture sensitive per J-STD-020 or J-STD-075 shall be packaged in accordance with J-STD-033, including moisture proof antistatic material with an external conductive field shielding barrier, and a moisture-sensitive identification label. The package shall be plainly marked with handling precautions against electrostatic discharge.

01-Mar-2020

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QA139

**SOURCE INSPECTION**

Source Inspection is required prior to shipment. Contact the BAE Systems Quality Engineer for source inspection requirements. The completed requirements must be sent to BAE Systems for approval prior to shipment. Once BAE Systems has approved the completed requirements, a copy of the approval and completed requirements must be shipped with the material.

29-Apr-2010

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QA140

**TECHNOLOGY PROCESS BASELINE**

Technology Process Baseline ensures that significant manufacturing processes, inspections and/or tests crucial to the fabrication of business critical items are baselined by BAE Systems per Process Validation Assessment (PVA). PVA Technology Process Baseline document is required for execution of this contract when BAE Systems design drawing includes "PROCESS BASELINE REQUIRED. PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH M50GB3482" and/or when implementation is directed by the BAE Systems Sourcing Engineer.

Upon implementation of a Technology Process Baseline document, the supplier accepting this order agrees parts are manufactured to the processes/procedures documented within the Process Validation Assessment Technology Statement of Work. Any changes to this documented baseline must have prior approval from the BAE Systems Sourcing Engineer.

04-Aug-2011

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QA141

**ADEQUACY OF CLEANING PROCESSES (CLEANLINESS)**

Delivered parts and assemblies must be clean and free from any material/debris, such as machined chips, burrs, grinding dust, forming materials, corrosion, oil and other foreign material on surfaces, as well as in entrapped areas.

14-Mar-2003

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QA142

#### **PRINTED WIRING BOARD REQUIREMENTS (MULTILAYER RIGID & RIGID-FLEX DESIGNS)**

These requirements apply to multilayer rigid and rigid-flex printed boards, unless otherwise specified in the drawing. For single-sided and doubled-sided boards, QA010 applies instead. For flexible circuits, QA155 applies. For printed board assemblies that include assembled and soldered components, QA154 applies.

**NOTE:** Where the word "drawing" is used, it indicates the Engineering drawing and all documents, associated files, and data referenced therein.

- 1. For each production multilayer lot, the supplier shall cross-section one production board, which may be non-functional. The microsections shall be taken from an area of the board that approximates the highest risk for low plating thickness. Microsections shall include at least 3 examples of each type of plated structure: plated-through holes, and any other type of via (e.g. blind, buried, or microvia) included in the design. For rigid-flex designs, a cross-section shall be taken perpendicular to each rigid-flex interface, and the microsection shall include at least 0.25" on both sides of the interface. Microsections shall be evaluated to IPC-6012/6013 requirements for coupons and IAW the BAE Systems drawing. The sample production board, the microsections taken from that board, the normal coupon microsections, and any remaining coupon strips not prepared shall be retained by the supplier for at least 5 years, and furnished to BAE Systems upon request. If BAE Systems has not requested them, any samples that are delivered with the product may be returned at the supplier's expense.**
- 2. Any electrical open found at bare board electrical test requires verification to determine if the fault is in a trace or plated hole. Any plated hole open requires cross sectional analysis and a formal Failure Analysis Report (FAR). The FAR number should be recorded on the shop traveler, and the lot shall not be shipped to BAE Systems until the supplier dispositions the remaining boards in the lot based on results of the FAR.**
- 3. BAE Systems requires a pilot lot for first time build of any design that incorporates sequential laminations with plated-through holes, or any construction other than epoxy/glass or polyimide/glass, unless the supplier has extensive experience with similar designs.. Upon receipt of a BAE Systems Request for Quote, the supplier shall quote a pilot lot of not more than (2) panels, to be included in the BAE Systems purchase order, and used by the supplier to verify capabilities of their processes. Results shall be reported to BAE Systems, and BAE Systems may request that pilot boards and any cross sections shall be delivered to BAE Systems, along with a report of any defects. Any non-conforming PWBs delivered from the pilot lot shall be marked clearly as "Not For Production."**
- 4. Unless otherwise specified in the drawing, PWBs shall be packaged IAW IPC-1602, including a heat-sealed moisture barrier bag (MBB) with desiccant and HIC. Per IPC-1602, the bag shall meet MIL-PRF-81705 Type I requirements for flexibility, mechanical strength, and puncture resistance, and water vapor transmission rate shall not exceed 0.0005 g/100in<sup>2</sup>/day @ 40°C. Each moisture barrier bag may contain up to 10 PWBs of size 144 in<sup>2</sup> (per side) or greater, provided that boards are separated by slip sheets or other appropriate materials such as pink poly bags. Smaller boards may be packaged up to 25 per bag, with separators. Each moisture barrier bag shall be marked with the part number, date code, quantity, and serial numbers of the PWBs enclosed. Moisture content**



prior to packaging shall not exceed 0.2% by weight of the PWB, IAW IPC-1602. Moisture content may be assured by documented process controls or appropriate testing.

5. Unless another permanent solder mask coating is specified in the drawing, the following liquid photoimageable (LPI) coatings are approved:
  - Probimer 65, Probimer 77
  - Taiyo PSR-4000 Series
 Solder mask shall be cured per manufacturer's recommendations except that Taiyo materials shall include a final UV Bump of at least 2 joules per square centimeter. Exceptions shall be approved in writing by BAE Systems.
6. Where plated vias are covered with solder mask IAW the artwork, the hole and lands/pads shall be covered with solder mask.
7. Solder mask shall not touch or encroach on solderable portions of BGA pads. Exceptions shall be approved in writing by BAE Systems.
8. Unless otherwise specified in the drawing or authorized in writing by BAE Systems, to assure that etched copper patterns meet specifications, Automated Optical Inspection (AOI) shall be performed on 100% of imaged layers for:
  - Innerlayer cores
  - Sublamination panels
  - Finished sequential lamination PWB panels, and PWBs with filled vias (through, buried, or blind)
  - Finished panels with external-layer copper ground planes.
9. A serialization sheet shall be submitted with each order, listing the serial numbers of all PWBs delivered. Serial numbers are defined on the drawing, and usually include the panel traceability number and a sequential identifier (for multi-up panels or arrays).
10. Unless otherwise specified in the drawing (e.g. where the drawing calls out M50GB3586), the following laminate and prepreg materials shall be used. Alternatives shall be approved in writing by BAE Systems.

#### Approved Base Materials

IPC-6012 Bd. Type	Drawing Callout			
	IPC-4101/21, GF, GFG	IPC-4101/24	IPC-4101/26	IPC-4101/126
Any Type	The following materials <u>shall not</u> be used unless specifically approved in writing by BAE Systems: Isola FR406, Nelco N4000-6 and N4000-6FC.			
Type 3	Any IPC-4101/21 Material <sup>1</sup>	Any IPC-4101/24 Material <sup>1</sup>	Any IPC-4101/26 Material <sup>1</sup>	Isola 370HR Nelco N4000-29 Panasonic R-1755V Nanya NP175F ITEQ 180A EMC EM-827
Type 4	Isola 370HR, Nelco N4000-29, Panasonic R-1755V, ITEQ 180A			

**NOTE 1:** IAW IPC-4101E, for BAE Systems original drawings released before December 31, 2016, approved /126 materials may be used in place of /21, /24, or /26.

If a supplier has previously delivered a particular design, subsequent orders shall not be fabricated using different base materials unless approved by BAE Systems.

11. Unless otherwise specified in the drawing, only the following nonconductive via-fill materials are acceptable:
  - SAN-EI Kagaku PHP-900 IR10F, PHP-900 IR10FE, and PHP-900 IR-6P
  - Taiyo THP-100DX1 VF, Taiyo THP-100DX1 VF(HV), Taiyo THP-100DX1 (HTG).Alternatives shall be approved by BAE Systems.
12. PWBs with date codes more than 12 months old shall not be delivered without approval from BAE Systems. PWBs with ENIG finish shall not be delivered unless solderability testing has been completed within the previous 12 months.
13. Where the design requires electrical testing IAW IPC-9252, indirect isolation and continuity testing shall not be used without approval from BAE Systems.
14. Where the drawing specifies rigid materials per MIL-P-13949 or MIL-S-13949, equivalent materials per IPC-4101 are acceptable. Where the drawing specifies flex materials per IPC-FC-232, IPC-FC-233, or IPC-FC-241, equivalent materials per IPC-4203 or IPC-4204 are acceptable.
15. Where the drawing specifies MIL-P-50884, MIL-PRF-50884, MIL-P-55110, or MIL-PRF-55110, equivalent provisions of MIL-PRF-31032 and the associated QML are acceptable.
16. Type T fused tin/lead final finish shall not be reworked using Type S (HAL) solder coating without approval from BAE Systems on a case-by-case basis.
17. Unless otherwise specified in the drawing, ENIG thickness shall be measured by XRF spectrometry in accordance with IPC-4552, with frequency of inspection IAW IPC-6012 Table 4-3 for Class 3. Gold thickness shall be 3 + 1 microinches.
18. Where impedance testing is required by the BAE Systems drawing, at least one coupon per panel shall be tested, unless otherwise specified.
19. Unless otherwise specified on the BAE Systems drawing, soldermask color shall be green, legend ink shall be white. Where the BAE Systems drawing specifies marking with "epoxy ink", with or without any other military or commercial specification invoked, an inkjet process may be used with a white ink that meets the performance requirements of A-A-56032 Type II or the marking permanency requirements of MIL-STD-130.
20. Unless otherwise specified on the BAE Systems drawing, date code format shall be YYWW.
21. Where the drawing specifies IST testing IAW M50GB3577, any capacitance results out of limits shall be cause for rejection unless approved in writing by BAE Systems.
22. Unless otherwise specified on the BAE Systems drawing, IST coupons shall be designed using criteria from PWB Inc. at <http://pwbcorp.com/EN/Coupons.php>, and D Coupons shall be designed using criteria from CAT Inc. at <http://cat-test.info/d-coupon/>.
23. Where the drawing specifies manufacturer's identification marking after "MFR," the manufacturer's CAGE Code shall be marked directly after "MFR."

23-SEP-2021

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QA143

#### **SOLDERS AND SOLDERABILITY**

If this note appears as a requirement on this purchase order, it is intended to supersede BAE Systems Procurement note QA005. Unless otherwise required by the BAE Systems part/drawing specification, or documented in the purchase order, the following requirements apply. Any deviation from these requirements must be agreed to by BAE Systems.

##### **A. Solderability**

Components and wires to be soldered shall meet the solderability requirements of an appropriate solderability test method per J-STD-002 or equivalent. J-STD-002 test methods are considered destructive and tested components shall not be supplied unless prior approval is obtained from BAE Systems. When a solderability inspection operation or pretinning and inspection operation is performed as part of the documented assembly process, that operation may be used in lieu of solderability testing. External terminations of devices incorporating magnetic windings shall meet these requirements, less steam aging. Printed boards shall meet the requirements of J-STD-003 or equivalent. The supplier shall establish a solderability testing schedule to ensure that parts are solderable upon receipt by BAE Systems. The schedule need not be lot-by-lot if the supplier has documented evidence that their testing schedule ensures solderable material.

**B. Component Termination Finishes**

1. Area-array components such as ball grid arrays (BGA's) or ceramic column grid arrays (CCGA's) shall have balls or terminations of tin/lead (SnPb) alloy. For other components, SnPb eutectic finish is preferred. Electroplated SnPb finishes shall be fused and shall conform to SAE-AMS-P-81728. For hot solder dipping, solder shall comply with J-STD-006 type Sn60Pb40, Sn63Pb37, or Sn62Pb36Ag2.
2. Tin/nickel alloys, alloys containing bismuth, and tin alloys with less than 3% lead are not allowed.
3. Unless prior approval is obtained from BAE Systems procurement representative, gold and silver shall be removed from the to-be-soldered surfaces in accordance with J-STD-001 using alloys Sn60Pb40, Sn63Pb37, or Sn62Pb36Ag2. Solder cups and connector eyelet-style terminations are exempt from this constraint.
4. Components and component package labels shall be marked with the finish code per J-STD-609.

**C. Soldering**

1. No Pb-free solder shall be used without prior approval from BAE Systems.

01-Apr-2011

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QA144

**REQUIREMENTS FOR INDEPENDENT DISTRIBUTORS**

This note applies to independent distributors (person(s) or companies that are not franchised or authorized by an Original Equipment Manufacturer (OEM) to sell or distribute OEM products.) Orders placed through these independent distributors must include an Independent Distributor Test Checklist provided by BAE Systems Procurement Representative. The independent distributor must first provide a copy of a completed summary report addressing the Independent Distributor Test Checklist to the BAE Systems Procurement Representative prior to authorization to ship. Upon the BAE Systems Procurement Representative's approval to ship, the independent distributor must deliver a completed copy of Independent Distributor Test Checklist with each lot of parts shipped to BAE Systems.

Orders placed through independent distributors may be subject to additional functional and/or physical validation prior to delivery or when the order arrives at the BAE Systems location. BAE Systems reserves the right to reject the lot(s) for any indication of a functional and/or physical deviation to the OEM specification. Acceptance of this order by the independent distributor constitutes an agreement that the independent distributor will reimburse BAE Systems for the total price of the purchase agreement if the parts are

deemed to be suspect and not approved for use through inspection and test methods used by BAE Systems and/or BAE Systems authorized test facilities.

09-Mar-2012

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QA145

**PACKING SLIP REQUIREMENTS FOR END DESTINATION IN MEXICO**

In order to comply with requirements imposed by Customs, the packing slip for all goods shipped with an end destination of BAE Systems in Guaymas, Mexico must contain the following information:

- a) BAE Systems Part Number
- b) Price
- c) Unit of Measure
- d) Country of Origin

29-Jul-2008

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QA146

**DELEGATED INSPECTION AUTHORITY**

Supplier has been granted Delegated Inspection Authority.

24-Feb-2009

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QA147

**PROGRAMMABLE MICROCIRCUIT DEVICES (PMD) REQUIREMENT**

For all programmable microcircuit devices (PMD), a first article inspection report and sample must be submitted for review and approved by BAE Systems.

31-Aug-2009

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QA148

**TESTED PRODUCT REQUIREMENTS**

The approved test house(s) are typically defined by item number on the applicable design document. When a test house is not specified for the design, the following test house sources are approved: Tandex, Integra (Amkor), and Pikes Peak. Other Test Houses shall not be used without approval from BAE Systems.

The Seller shall present tested devices in the following manner:

1. Any failed devices must be placed in a separate bag from the devices that passed testing.
2. Any failed devices must be clearly labeled on the outside of the bag as "FAILED".
3. The packing slip and/or associated documents must show on separate lines the quantity of devices included in the shipment that passed and the quantity of devices included within the shipment that failed.
4. The quantity failed should be detailed by electrical and/or mechanical failures.

18-APR-2019

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QA149

### **SOLDERS AND SOLDERABILITY**

I. Requirements - Unless otherwise specified by the design, or documented in the purchase order, the following requirements apply. Any deviation from these requirements must be agreed to by BAE Systems.

A. Solderability

Components and wires to be soldered shall meet the solderability requirements of an appropriate solderability test method per J-STD-002 or equivalent. Components leads or terminals not fabricated from a solderable copper base metal should be capable of meeting the requirements of J-STD-002 Test Method D (Resistance to Metallization Test) or equivalent. J-STD-002 test methods are considered destructive and tested components shall not be supplied unless prior approval is obtained from BAE Systems. When a solderability inspection operation or pretinning and inspection operation is performed as part of the documented assembly process, that operation may be used in lieu of solderability testing. External terminations of devices incorporating magnetic windings shall meet these requirements, less steam aging. Printed wire boards shall meet the requirements of J-STD-003 or equivalent. The supplier shall establish a solderability testing schedule to ensure that parts are solderable upon receipt by BAE Systems. The schedule need not be lot-by-lot if the supplier has documented evidence that their testing schedule ensures solderable material.

B. Component Termination Finishes – Printed wire boards are exempt from the component termination finish requirements in QA149.

1. Area-array components such as ball grid arrays (BGA's) or ceramic column grid arrays (CCGA's) shall have balls or terminations of tin/lead (SnPb) alloy. For other components, SnPb eutectic finish is preferred. Electroplated SnPb finishes shall be fused and shall conform to SAE-AMS-P-81728. For hot solder dipping, solder shall comply with J-STD-006 using alloys Sn60Pb40, Sn63Pb37, or Sn62Pb36Ag.
2. Alloys containing more than 5% bismuth (Bi) are not allowed. Bi alloys are not allowed over low expansion alloy base materials (e.g. Kovar, Alloy 42).
3. "Matte tin" (Sn) plating, alloys containing 5% or less Bi (when plated over copper), tin/silver (SnAg), and tin/silver/copper ("SAC") alloys are permissible if termination spacing is .018 inch or greater, or if there is a nickel barrier (Ni) over the base metal. For these finishes, a Ni barrier is required over brass base metal regardless of termination spacing.
4. "Bright tin" (Sn), silver (Ag), tin/copper (SnCu) alloys, and tin/nickel (SnNi) alloys are not allowed.
5. Gold shall be removed from the to-be-soldered surfaces. For hot solder dipping, solder shall comply with J-STD-006 using alloys Sn60Pb40, Sn63Pb37, or

- Sn62Pb36Ag2. Solder cups and connector eyelet-style terminations are exempt from this gold removal requirement.**
- C. Soldering**  
**No Pb-free solder shall be used without prior approval from BAE Systems.**

**II. Preferred Conditions - The following are preferred, but not required.**

- A. Components and component package labels should be marked with the finish code per J-STD-609.**

**01-Apr-2011**

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**QA150**

**MECHANICAL ASSEMBLY HELICAL COIL THREADED INSERT CONTROL PLAN REQUIREMENTS**

This requirement applies to suppliers that provide product to BAE Systems containing helical coil threaded inserts. Sellers providing product to BAE Systems containing helical coil threaded inserts shall maintain a helical coil control plan program. When applicable, Seller's helical coil control plan program shall include:

1. A continuous improvement program for periodic review of design and manufacturing processes to identify and eliminate opportunities for issues related to helical coil inserts (Missing, locking/non-locking, etc.). Included in the review shall be a comparison to the BAE Systems Mechanical Helical Coil Insert Control Plan Template ([available at this link](#)). Questions related to the BAE Systems Control Plan can be addressed to the BAE Systems Sourcing Engineer.
2. Seller shall employ appropriate housekeeping practices to ensure helical coils are adequately identified and segregated. Opportunities for mixing during assembly and storage/handling should be eliminated. (i.e. one part at a workstation at a time)
3. Process controls should be formally documented in a Control Plan, Work Instruction, or other controlled document that is familiar to operators and inspection personnel.

**12-May-2011**

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**QA151**

**INDEPENDENT DISTRIBUTOR CERTIFICATE OF CONFORMANCE (C OF C)**

**Traceability Documentation- With each shipment the supplier must provide a Certificate of Conformance that includes the following information:**

- **BAE Purchase Order and Line Item Number**
- **Quantity included in shipment**
- **Part Number as listed on the Purchase Order**
- **Manufacturer's Name and Address and Cage code**
- **Manufacturer's Part number (If Different)**
- **Lot code/Date code**
- **Product Description**
- **An authorized representative of the supplier shall sign and date the certificate attesting to the conformance**

**The supplier shall provide acquisition traceability provided by the original component manufacturer and previous distributors for each shipment.**

**Military compliant microcircuits and discrete semiconductors shall adhere to the acquisition traceability requirements in MIL-PRF-38535 and MIL-PRF-19500. These documents require that manufacturer certifications follow the parts throughout the supply chain. (In no case shall the acquisition traceability documentation be altered or shows signs of alteration. This is grounds for immediate rejection of the lot/shipment.) The original component manufacturer's certification shall include (at a minimum):**

- **Manufacturer's name and address.**
- **Device type**
- **Lot identification code (including plant code).**
- **Conformance inspection acceptance date.**
- **Quantity of devices in shipment from manufacturer.**
- **Statement certifying product conformance and traceability.**
- **Signature and date of transaction**
- **Customer or Distributors name and address**

**Other device deliveries should include the documentation cited above for military parts as available and applicable. At a minimum these device deliveries shall be accompanied by documentation (for example, packing slips, invoices) that confirms acquisition traceability back to the device OEM.**

**Acquisition traceability also includes distributor documentation for each distributor in the supply chain:**

- **Distributor's name and address.**
- **Name and address of customer as involved in the chain of custody.**
- **Quantity of devices in shipment.**
- **Lot/Date code**

**The QA151 requirements are in addition to the requirements of QA118. Copies of acquisition traceability documentation must be maintained by the supplier for a minimum of 15 years.**

**9-Mar-2012**

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**QA152**

**BAE SYSTEMS SUPPLIED Property**

**This Note only applies if BAE Systems has provided Property to the Supplier in support of the product being ordered.**

**The Supplier shall comply with the following Property requirements for the full duration of their possession of the BAE Systems supplied Property. This requirement is a supplement to any other Property requirements flowed down in Terms and Conditions or any other Contract language.**

- 1. Upon receipt of BAE Systems supplied Property, supplier shall verify the following - there is no damage and there are no missing details/parts.**
- 2. Visual inspections shall be performed at each use, separate records are not required.**

3. BAE Systems Property shall only be used for the specific purpose for which it was intended.
4. Any discrepancies found during condition check at each use shall be properly documented and addressed in accordance with Supplier's documented maintenance and/or nonconformance processes.
5. BAE Systems supplied Property not in use or stored by supplier shall be controlled in a fashion and in facilities adequate to prevent loss, theft, damage, and deterioration.

18-JAN-2019

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QA153

#### **BOEING SUPPLIER FAA-PMA MARKINGS**

No articles supplied under this purchase order are to contain any FAA-PMA markings including the associated paperwork and packaging.

17-Dec-2015

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QA154

#### **ASSEMBLY REQUIREMENTS**

**NOTE:**Where the word "drawing" is used below, it indicates the Engineering drawing and all documents, associated files, and data referenced therein.

1. Unless otherwise specified in the drawing, electronic assembly and soldering shall be performed in accordance with IPC J-STD-001 Class 3.
2. BAE Systems assembly drawings will include a parts list or reference a separate bill of material (BOM). All BAE Systems drawing requirements apply, whether included on the top level drawing or on any sub-tier part or assembly drawing that is included on an applicable BAE Systems parts list or BOM.
3. Parts or assemblies shall be procured only from suppliers listed on an Approved Vendor List (AVL) furnished by BAE Systems. This satisfies requirements of BAE Systems specification M50GB3482. Parts or assemblies on an applicable BAE Systems parts list or BOM that are not referenced on the AVL shall be procured only from suppliers or distributors approved in writing by BAE Systems.
4. Prior to soldering, area array components such as Ball Grid Arrays (BGAs) or Ceramic Column Grid Arrays (CCGAs) shall have balls or terminations of tin/lead (SnPb) solder alloy, unless otherwise specified in the drawing. Unless specified in the drawing, component terminations with alloys containing more than 5% bismuth (Bi) are not allowed.
5. The following requirements shall be flowed down to suppliers of parts required by the BOM:
  - Multilayer printed boards shall be procured in accordance with QA142.
  - Single and double-sided boards shall be procured per QA010.
  - Flexible circuits shall be procured in accordance with QA155.
  - Moisture sensitive components shall be packaged in accordance with QA138.



- Electrostatic discharge sensitive items shall be protected and packaged in accordance with ESD S20.20 or equivalent.

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26-Apr-2016

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QA155

### **FLEXIBLE PRINTED CIRCUIT REQUIREMENTS**

Unless otherwise specified in the drawing, these requirements apply to flexible circuits, with or without stiffeners, meeting MIL-P-50884 Type 1, Type 2, or Type 3, or IPC-6013 Type 1, Type 2, or Type 3. These requirements do not apply to rigid-flex or multilayer rigid designs, see QA142. For single and double-sided rigid boards, see QA010.

**NOTE:**Where the word "drawing" is used below, it indicates the Engineering drawing and all documents, associated files, and data referenced therein.

1. Coupon microsections and any remaining coupon strips not prepared shall be retained by the supplier for at least 5 years, and furnished to BAE Systems upon request.
2. Any electrical open found at bare board electrical test requires verification to determine if the fault is in a trace or plated via. Any via open requires cross sectional analysis and a formal Failure Analysis Report (FAR), which shall be provided to BAE Systems upon request. The lot shall not be shipped to BAE Systems until the supplier dispositions the remaining boards in the lot based on results of the FAR.
3. Where the drawing requires that individual flexible circuits must be serialized, a serialization sheet shall be submitted with each order, listing the serial numbers of all parts delivered. Serial number format will be specified on the drawing, and usually includes the panel traceability number and a sequential identifier (for multi-up panels or arrays).
4. Unless otherwise specified in the drawing, flexible circuits shall be packaged IAW IPC-1602, including a heat-sealed moisture barrier bag (MBB) with desiccant and HIC. If multiple parts are packaged in a single moisture barrier bag, slip sheets or other appropriate separators shall be included to prevent damage. Each moisture barrier bag shall be marked with the part number, date code, quantity, and serial numbers (if applicable) of the parts enclosed. Moisture content prior to packaging shall not exceed 0.2% by weight of the flexible circuit, IAW IPC-1602. Moisture content may be assured by documented process controls or appropriate testing.
5. Flex with date codes more than 12 months old shall not be delivered without approval from BAE Systems.
6. Where the design requires electrical testing IAW IPC-9252, indirect isolation and continuity testing shall not be used without approval from BAE Systems.
7. Where the drawing specifies a material in accordance with a cancelled specification listed in the table below, the equivalent material listed is acceptable:

<b>Where The Drawing Specifies</b>	<b>Equivalent Material Is Allowed IAW</b>
<b>MIL-P-13949</b>	<b>IPC-4101</b>
<b>MIL-PRF-13949</b>	<b>IPC-4101</b>
<b>MIL-P-46112</b>	<b>ASTM D5213</b>
<b>IPC-MF-150</b>	<b>IPC-4562</b>
<b>IPC-CF-150</b>	<b>IPC-4562</b>
<b>IPC-FC-241</b>	<b>IPC-4204</b>
<b>IPC-FC-232</b>	<b>IPC-4203</b>
<b>IPC-FC-231</b>	<b>IPC-4202</b>

8. Where the drawing specifies MIL-P-50884 or MIL-PRF-50884, equivalent provisions of MIL-PRF-31032 and the associated QML are acceptable.
9. Type T fused tin/lead final finish shall not be reworked using Type S (HAL) solder coating without approval from BAE Systems on a case-by-case basis.
10. When the purchase order includes design services, all fabrication data (e.g., Gerber files) are the property of BAE Systems and shall be furnished upon request.

30-JUL-2020

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QA156

**PACKAGING FOR AUTOMATED ASSEMBLY**

Components shall be supplied on tape and reel unless otherwise specified on the BAE Systems purchase order, or approved in writing by a BAE Systems purchasing agent.

26-Apr-2016

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QA157

**FOD PREVENTION**

The seller shall maintain a FOD prevention program that is based on principles of NAS 412. Where applicable the FOD prevention program shall include the following:

- Management Involvement.
- Employee FOD Awareness Training.
- The review of design and manufacturing processes to identify and eliminate foreign object entrapment areas and paths through which foreign objects can migrate.
- Employ appropriate housekeeping practices to ensure timely removal of residue/debris, if any, generated during manufacturing operations or tasks.
- Determine if sensitive areas that may have a high probability for introduction of foreign objects should have special emphasis controls in place appropriate for the manufacturing environment.
- Process Improvement to Eliminate FOD.

The Supplier shall comply with the additional "Quality Control System" requirements for FOD Prevention noted in the BAE Systems Terms & Conditions.

By delivering items to BAE SYSTEMS, SELLER shall be deemed to have certified to BAE SYSTEMS that such items are free from any foreign material that could result in FOD.

14-Dec-2016

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QA158

**CONFIGURATION MANAGEMENT AND REVISION CONTROL**

Acceptance of this order constitutes agreement that the supplier has and shall comply with all the applicable revisions of configuration controlled documents including but not limited to: engineering drawings, Bill of Materials (BOM), referenced specifications, released change notices, parts lists, Product Configuration sheets, Outplant Procurement Manufacturing Specifications (OPMS), PVA Statement of Work, work instructions and travelers/routers. All suppliers must maintain a configuration management and revision control system that ensures that the correct revisions of these applicable configuration controlled documents are in use by production and flowed down to suppliers, where required. The system should also prevent the use of obsolete or illegible drawings, specifications, process sheets, work travelers, test and manufacturing software.

07-Jun-2018

QAA01

**CERTIFICATE OF CONFORMANCE (C OF C)**

The C of C must be provided by the supplier of this purchase order.

The supplier shall submit with each shipment a certificate of conformance bearing the following information:

- A) C of C issue date
- B) The manufacturer's name and (cage code/or address)
- C) Date code/serial number of manufactured material/parts
- D) Part number
- E) Part revision level
- F) Quantity shipped
- G) The purchase order number
- H) A statement confirming articles furnished to BAE Systems are in conformance with the purchase order requirements, engineering drawings & specifications

**Data Retention**

The manufacturer shall retain all test data for five (5) years beyond date of purchase order placement. All data shall be made available to BAE Systems upon request during this time.

**Manufacture Traceability**

The entire quantity of a given part number on this purchase order shall be traceable to the manufacturer

20-Aug-2001

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**QAA02**

**ATTRIBUTE SUMMARY**

Attribute summary is to be supplied with each shipment.

Summary shall include:

- Part Number
- Lot Number
- Date Code and/or Serial Number
- Specific number of units that underwent required screening as defined by the drawing.
- Number of units that passed
- Date of the screen(s)
- Test methods & conditions utilized for the required tests

20-Aug-2001

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**QAA03**

**READ AND RECORD DATA**

Read & record data shall be supplied with each shipment of material.

Read & record data must show actual measurements.

Read & record data shall be supplied for each serial number or lot date code device, as applicable, submitted to electrical testing.

If an approved ATP is used then the acceptance test data satisfies this requirement.

20-Aug-2001

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**QAB01**

**CERTIFICATE OF CONFORMANCE \* (C OF C)**

The C of C must be provided by the contracted supplier of this purchase order (P.O.). The supplier shall submit with each shipment a Certificate of Conformance bearing the following information:

- A) C of C issue date.
- B) The manufacturer's name and (cage code/or address)
- C) Date Code of parts delivered
- D) Part Number
- E) Quantity of parts shipped
- F) The Purchase Order number (this P.O.#)
- G) A statement confirming articles furnished are in conformance with the Purchase Order (P.O.) requirements, engineering drawings & specifications.
- H) A statement that material supplied on this purchase order is in accordance with current revision of the QML at the time of part manufacture and there are no GIDEP alerts levied against the delivered part numbers and date codes at the time of P.O. placement.
- I) Part # and Date Code of parts subjected to group A testing

- J) Part # and date code of parts subjected to group B testing**
- K) Part # and date code of parts subjected to group C testing**
- L) Part # and date code of parts subjected to group D testing**

**Additional Manufacturer Requirement(s)**

**The manufacturer shall retain all test data for five (5) Years beyond date of this P.O. placement. All data shall be made available upon request during this time.**

**Manufacture Traceability**

**The entire quantity of a given part number on this purchase order shall be traceable to the manufacturer**

**20-Aug-2001**

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## QAC01

### **TRACEABILITY REQUIREMENTS**

Traceability requirements are different for piece parts verses mechanical assemblies.

A) The supplier of piece parts must maintain traceability for each part to the OEM and to the OEM production lot number. If more than one OEM is used to satisfy a Purchase Order line item, parts must be segregated and identified by OEM production lot.

B) For mechanical assemblies, the supplier shall serialize the delivered products in accordance with the engineering drawings. Serialization shall occur in the production cycle no later than final assembly. Documented traceability, in the form of a certified parts listing, as described below must be provided for each delivered assembly. The certified listing shall include:

- 1) The OEM production lot/tracking numbers for all piece parts within the assembly.
- 2) OEM name and associated production part number(s)
- 3) The Purchase Order number (this P.O.)
- 4) Signed and dated by supplier contracted for this P.O.

C) Record retention - five years: supplier shall retain all manufacturing and inspection record acceptance data traceable to manufacturer's production lot numbers, as a minimum, for five years beyond date of this Purchase Order. All data shall be made available upon request during this time.

D) All data as defined as required and/or deliverable shall be verified and shipped with material.

20-Aug-2001

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## QAC02

### **CERTIFICATE OF COMPLIANCE (C OF C)**

Piece parts - for piece parts, a Certificate of Compliance from the manufacturer or distributor shall be provided and shall contain the following:

- 1) Issue Date and Lot Code from the part manufacturer.
  - 2) Signature of the part manufacturer's authorized representative.
  - 3) The manufacturer's name and (cage code/or address)
  - 4) Part Number
  - 5) Quantity shipped
  - 6) A statement confirming the part is in conformance with the drawings and specifications
- Assemblies - for group level assemblies the Certificate of Compliance must include the six items above and (plus) Certifications for all materials, finishes, coatings, surface treatments and special processes defined per engineering drawings and subtier drawings.

20-Aug-2001

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**QAC03**

**FIRST ARTICLE REQUIREMENTS ON ASSEMBLIES**

A First Article inspection is required for each lot of material delivered. One unit from each delivered lot shall be assessed to assure conformance to all drawing, notes and specification requirements. The first article inspection shall include as a minimum confirmation of all delineated characteristics and notes on the engineering drawing. The Item that FAI is performed on shall be identified with a tag or label (bag and tag is acceptable for small parts or parts with critical surface finishes, packaging requirements, etc. which could be damaged by tagging or labeling). If the Item is serialized, the serial number of the Item shall also be identified in the FAI Report.

The First Article report shall include as a minimum the following for each assembly:

- A. The Purchase Order number (this P.O.)
- B. Assembly Part Number
- C. Part Revision level
- D. Serial Number (as applicable)
- E. Drawing requirements including tolerances and FAI result
- F. Methods used to obtain measurement data and results of each measurement

**16-Sep-2009**

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**QAD01**

**DATA RETENTION**

The manufacturer shall retain all test data for five (5) Years beyond date of this P.O. placement. All data shall be made available upon request during this time.

**Traceability Requirements**

The supplier under contract must maintain traceability for each part to the OEM and to the OEM production lot number. If more than one OEM is used to satisfy a Purchase Order line item, parts must be segregated and identified by OEM production lot.

**Data Requirements**

All data defined in the engineering drawing and P.O. as deliverable shall be shipped with the material.

**Certificate of Compliance**

A certificate of conformance from the manufacturer (OEM) shall accompany the material shipped. It shall contain:

- A) Manufacturer's name and (Cage Code/or address)
- B) Manufacturing Lot Number and/or Date Code as applicable

**Manufacturer Traceability**

The entire quantity of a given Part Number on this Purchase Order (P.O.) shall be traceable to the manufacturer

**20-Aug-2001**

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**QAE01**

**DATA RETENTION**

**The manufacturer shall retain all test data for five (5) Years beyond date of this P.O. placement. All data shall be made available upon request during this time.**

**Traceability Requirements**

**The supplier under contract must maintain traceability for each part to the OEM and to the OEM production Lot Number. If more than one OEM is used to satisfy a Purchase Order line item, parts must be segregated and identified by OEM production lot.**

**Data Requirements**

**All data defined in the engineering drawing and P.O. as deliverable shall be shipped with the material.**

**Certificate of Compliance**

**A Certificate of Conformance from the manufacturer (OEM) shall accompany the material shipped. It shall contain:**

**A) Manufacturer's name and (Cage Code/or address)**

**B) Manufacturing Lot Number and/or Date Code as applicable**

**Manufacture Traceability**

**All parts and/or material on this Purchase Order shall be traceable to the manufacturer**

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RFQ-G

**RFQ STATEMENTS - US GOVERNMENT**

RFQ-G replaced RFQ01.

BAE Systems Terms & Conditions "BAEDOC USGOVFFP" & "BAEDOC USGOVA" shall be in effect for this RFQ / RFP, unless otherwise specified.

To obtain the following Terms & Conditions documentation, this link will take you to the BAE Systems Terms & Conditions web page: [Terms & Conditions web page](#). The latest revision of the applicable Terms and Conditions document is in effect for this contract, unless otherwise specified in the contract.

BAE Systems Controls Inc. is not obligated to pay any costs incurred by the offeror in preparing or submitting this offer.

BAE Systems Controls Inc. requests the offeror's most favorable prompt payment discount terms. Offers must be in U.S. currency.

Unit price must include any and all charges, both recurring and non-recurring, associated with the part number. These costs must be amortized in the piece part price on the quote and invoice. The breakdown should be as indicated below... Part number: 200 Pieces @ \$5.00 (\$3.00 Each / \$1.00 Testing / \$1.00 Tooling)

The award will be made to the offeror that in BAE Systems Controls Inc. judgment submits the best overall offer.

Identify any drawings, data, & data rights that are proprietary. BAE Systems Controls Inc. will not receive or provide proprietary information without an executed Proprietary Information Agreement.

Offerors producing products where the country of origin is outside the U.S. or its territories and possessions, must identify the place of production or performance in the offer.

Offerors providing products with an origin outside the U.S. or its territories and possessions must identify ozone-depleting chemicals used to manufacture the products, if applicable.

Offerors providing products containing ozone-depleting chemicals must label the products in accordance with federal law.

Per the requirements of this RFP/RFQ, you must comply with the Counterfeit Parts Prevention and Notification Provision located in the General Provisions of BAE Systems' Terms and Conditions. As part of your proposal response, please confirm that you have read and understand this provision and will comply with it in its entirety.

All communication concerning BAE Systems Controls Inc. solicitation or the offeror's bid shall be made through the authorized buyer identified in this solicitation. Unauthorized contacts are a basis for disqualification.

Answer completely each element & item of information requested, & explain & justify any omissions.

Offeror must state any changes to its business size or ownership characteristics, if any have occurred since its last written certification furnished to BAE Systems Controls Inc.

Per FAR 52.209-5, the offeror states by submitting an offer, they certify that they are not presently debarred, suspended, proposed for debarment, or declared ineligible for award of contracts by any Federal agency.

If Offeror intends to conduct quotation work for this solicitation using anyone other than U.S. citizens or permanent resident aliens (i.e. green card holders), Offeror must provide advance written notice to BAE Systems. In any event, Offeror is responsible for compliance with applicable export control laws and regulations. Unless notified otherwise, Offeror is to treat all drawings, specifications, Statements of Work (SOW), and other data submitted with a solicitation as technical data that has not been cleared for export. If you are considering transferring any of the data overseas or to a non-US citizen, you must secure written permission from BAE Systems before exporting.

For Government Contracts (i.e. PO's with BAE Systems Terms and Conditions BAEDOC USGOVFP, USGOVA, or USGOVB), the supplier, by submitting an offer, certifies that they are compliant with

1. FAR 52.209-5 CERTIFICATION RESPONSIBILITY MATTERS,
2. FAR 52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS,
3. FAR 52.222-25 AFFIRMATIVE ACTION COMPLIANCE,
4. FAR 52.203-11 CERTIFICATION AND DISCLOSURE REGARDING PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS, AND

Definitions of any and all applicable contract clauses and copies of the BAE Systems terms and conditions referenced in this solicitation may be obtained on the Internet at:

<http://www.baesystems.com/supplierlink>

The anticipated contract type is Firm Fixed Price, unless otherwise stated on this RFQ or RFP.

The FOB point is DAP, freight is prepaid, unless otherwise stated on this RFQ or RFP.

If the resulting contract is expected to have a DPAS rating, the offeror will be required to follow all provisions of the Defense Priorities and Allocation System (DPAS) Regulation (15 CFR 700).

If a portion of the resulting contract is expected to have a DPAS rating, the offeror will be required to follow all provisions of the Defense Priorities and Allocation System (DPAS) Regulation (15 CFR 700) only as it pertains to the rated quantities.

If the offer, including options, exceeds \$700,000 and is in support of a U.S. Government rated contract, Offeror may be required to submit a Small Business Subcontracting plan that fully meets the requirements of FAR 52.219-9.

Offeror may or may not need to pass a pre-qualification site survey prior to an award.

If the offer is in support of a U.S. Government contract requiring cost or pricing data, offeror must provide Cost and Pricing Data, or submit a claim for Exemption/Exception from the Submission of Cost or Pricing Data.

If the requirement includes special quality process clauses, identify special processes used for the requirement & identify any sub-tier contractor performing the process.

If pricing for an option quantity is requested, price the option quantity as a separate line item.

All Technical Data furnished by BAE Systems Controls Inc. shall be returned to BAE Systems Controls Inc. or destroyed at completion of work at BAE Systems Controls Inc. direction. A Written certification of destruction may be required.

BAE Systems Controls Inc. reserves the right to make multiple awards.

BAE Systems Controls Inc. reserves the right to request a Final Proposal Revision (FPR).

BAE Systems Controls Inc. may conduct a facility survey.

Offerors may propose equivalent items & provide complete specifications demonstrating equivalency.

The quantity shown for each part number may not be a one-time shipment, but a forecasted usage over the life of the contract.

Scheduled deliveries to BAE Systems Controls Inc. will either be discrete schedules or auto-replenishment with a forecast or pull production.

17-Oct-2016

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RFQ-C

**RFQ STATEMENTS - COMMERCIAL**

RFQ-C replaces RFQ02.

BAE Systems Terms & Conditions "BAEDOC NONUSGOV" shall be in effect for this RFQ / RFP, unless otherwise specified.

To obtain the following Terms & Conditions documentation, this link will take you to the BAE Systems Terms & Conditions web page: [Terms & Conditions web page](#). The latest revision of the applicable Terms and Conditions document is in effect for this contract, unless otherwise specified in the contract.

BAE Systems Controls Inc. is not obligated to pay any costs incurred by the offeror in preparing or submitting this offer.

BAE Systems Controls Inc. requests the offeror's most favorable prompt payment discount terms. Offers must be in U.S. currency.

Unit price must include any and all charges, both recurring and non-recurring, associated with the part number. These costs must be amortized in the piece part price on the quote and invoice. The breakdown should be as indicated below... Part number: 200 Pieces @ \$5.00 (\$3.00 Each / \$1.00 Testing / \$1.00 Tooling)

The award will be made to the offeror that in BAE Systems Controls Inc. judgment submits the best overall offer.

Identify any drawings, data, & data rights that are proprietary. BAE Systems Controls Inc. will not receive or provide proprietary information without an executed Proprietary Information Agreement.

Offerors producing products where the country of origin is outside the U.S. or its territories and possessions, must identify the place of production or performance in the offer.

Offerors providing products with an origin outside the U.S. or its territories and possessions must identify ozone-depleting chemicals used to manufacture the products, if applicable.

Offerors providing products containing ozone-depleting chemicals must label the products in accordance with federal law.

Per the requirements of this RFP/RFQ, you must comply with the Counterfeit Parts Prevention and Notification Provision located in the General Provisions of BAE Systems' Terms and Conditions. As part of your proposal response, please confirm that you have read and understand this provision and will comply with it in its entirety.

All communication concerning BAE Systems Controls Inc. solicitation or the offeror's bid shall be made through the authorized buyer identified in this solicitation. Unauthorized contacts are a basis for disqualification.

Answer completely each element & item of information requested, & explain & justify any omissions.

Offeror must state any changes to its business size or ownership characteristics, if any have occurred since its last written certification furnished to BAE Systems Controls Inc.

Per FAR 52.209-5, the offeror states by submitting an offer, they certify that they are not presently debarred, suspended, proposed for debarment, or declared ineligible for award of contracts by any Federal agency.

If Offeror intends to conduct quotation work for this solicitation using anyone other than U.S. citizens or permanent resident aliens (i.e. green card holders), Offeror must provide advance written notice to BAE Systems. In any event, Offeror is responsible for compliance with applicable export control laws and regulations. Unless notified otherwise, Offeror is to treat all drawings, specifications, Statements of Work (SOW), and other data submitted with a solicitation as technical data that has not been cleared for export. If you are considering transferring any of the data overseas or to a non-US citizen, you must secure written permission from BAE Systems before exporting.

For Government Contracts (i.e. PO's with BAE Systems Terms and Conditions BAEDOC USGOVFFP, USGOVA, or USGOVB), the supplier, by submitting an offer, certifies that they are compliant with

1. FAR 52.209-5 CERTIFICATION REGARDING RESPONSIBILITY MATTERS,
2. FAR 52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS,
3. FAR 52.222-25 AFFIRMATIVE ACTION COMPLIANCE,
4. FAR 52.203-11 CERTIFICATION AND DISCLOSURE REGARDING PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS, AND
- 5.

Definitions of any and all applicable contract clauses and copies of the BAE Systems terms and conditions referenced in this solicitation may be obtained on the Internet at:

<http://www.baesystems.com/supplierlink>

The anticipated contract type is Firm Fixed Price, unless otherwise stated on this RFQ or RFP.

The FOB point is DAP, freight is prepaid, unless otherwise stated on this RFQ or RFP.

If the resulting contract is expected to have a DPAS rating, the offeror will be required to follow all provisions of the Defense Priorities and Allocation System (DPAS) Regulation (15 CFR 700).

If a portion of the resulting contract is expected to have a DPAS rating, the offeror will be required to follow all provisions of the Defense Priorities and Allocation System (DPAS) Regulation (15 CFR 700) only as it pertains to the rated quantities.

If the offer, including options, exceeds \$700,000 and is in support of a U.S. Government rated contract, Offeror may be required to submit a Small Business Subcontracting plan that fully meets the requirements of FAR 52.219-9.

Offeror may or may not need to pass a pre-qualification site survey prior to an award.

If the offer is in support of a U.S. Government contract requiring cost or pricing data, offeror must provide Cost and Pricing Data, or submit a claim for Exemption/Exception from the Submission of Cost or Pricing Data.

If the requirement includes special quality process clauses, identify special processes used for the requirement & identify any sub-tier contractor performing the process.

If pricing for an option quantity is requested, price the option quantity as a separate line item.

All Technical Data furnished by BAE Systems Controls Inc. shall be returned to BAE Systems Controls Inc. or destroyed at completion of work at BAE Systems Controls Inc. direction. A Written certification of destruction may be required.

BAE Systems Controls Inc. reserves the right to make multiple awards.

BAE Systems Controls Inc. reserves the right to request a Final Proposal Revision (FPR).

BAE Systems Controls Inc. may conduct a facility survey.

Offerors may propose equivalent items & provide complete specifications demonstrating equivalency.

The quantity shown for each part number may not be a one-time shipment, but a forecasted usage over the life of the contract.

Scheduled deliveries to BAE Systems Controls Inc. will either be discrete schedules or auto-replenishment with a forecast or pull production.

17-Oct-2016

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**SD001**

**SHIPPING INSTRUCTIONS**

**BAE Systems Controls Inc. assumes title of incoming goods at its dock. All transportation expenses are pre-paid by the shipper. Your BAE Systems Sourcing Representative identified on the Purchase Order must authorize any exception to this policy.**

**For shipments originating outside the United States, the packing slip to BAE Systems must contain:**

- **BAE Systems Part Number and Description**
- **Unit of Measure**
- **Total Shipment Value (in US Dollars)**
- **Country of Origin**
- **Harmonized Tariff Schedule (HTS)**

**04-Oct-2010**

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**SD002**

**SHIPPING INSTRUCTIONS – Tucson, AZ Import Broker Location**

**Applies to shipments for the BAE Systems Guaymas, Mexico facility shipped through the BAE Systems broker in Tucson, Arizona.**

**BAE Systems Controls Inc assumes title of incoming goods at its dock. All transportation expenses are pre-paid by the shipper unless otherwise noted on the PO/Contract. Your BAE Systems Sourcing Representative identified on the Purchase Order must authorize any exception to this policy.**

**Containers must have the following required documentation for importation purposes:**

- **Supplier Name on outside (one or more of the following: shipping label, packlist, box graphic, etc)**
- **A separate label affixed to exterior of outermost container with following information of all items inside:**
  - **BAE Systems Part Number**
  - **Quantity**
- **Pack List affixed to exterior of outermost container with the following minimum information:**
  - **BAE Systems Part Number and Description**
  - **Unit of Measure**
  - **Quantity**
  - **Total Shipment Value (in US Dollars)**
  - **Country of Origin**
  - **Harmonized Tariff Schedule (HTS)**

**Note:**

- **Pack Lists must be on the outside of shipping containers. If multiple containers are shipped on a single tracking number, it is preferred to affix a Pack List to each box. It is also preferred to have a copy of the pack lists located inside the boxes too.**

- CofCs must accompany every shipment located inside the shipment container. If the Packlist and CofC are one in the same, please include a copy on the outside and inside of the shipment. If multiple containers are shipped on a single tracking number, place a copy of the CofC in each box.

10-Sep-2020

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SD019

**HAZARDOUS MATERIAL**

When shipping hazardous material, supplier must comply with title #49 of the code of Federal Regulations (Ref: Tariff # BOE-6000-1). Each individual container (can, bottle, drum, etc.) containing the hazardous material to be delivered hereunder to be clearly and permanently labeled in accordance with the NFPA (National Fire Protection Agency) labeling system when applicable.

16-Feb-2011

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SD028

**INVOICING**

All invoices must reflect and match exactly the following elements identified on the Purchase Order. Failure to do so will prevent payment and return of the invoice to the sender.

**PURCHASE ORDER NUMBER**  
**PURCHASE ORDER LINE NUMBER**  
**PART NUMBER**  
**QUANTITY SHIPPED**  
**PRICE IN U.S. DOLLARS**

BAE Systems will provide payment via Fund Transfers directly to the Seller's Account. For assistance in setting up your account, contact the Sourcing Representative identified on the Purchase Order.

Accounts Payable Helpline is (260) 434-5368.

31-Jul-2002

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SD041

**DRAWING REVISION / PARTS LIST**

This document may be found [here](#).

12-May-2011

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SD050

**INDIANA SALES TAX UNIT EXEMPTIONS**

Buyer certified that the property purchased (or leased) or service purchased hereunder is exempt because

A) Property or service will be resold or rented in ordinary course of purchaser's business conducted under Indiana sales tax License Number 005408920-001-7.

B) Property will be directly used by purchaser in his manufacturing operations which are performed as a business.

The buyer is authorized to execute this certificate and claim this exemption (if so stated in "Tax Status" field on the Purchase Order.) Misuse of this certificate by seller, lessor, buyer, lessee, or their representatives is punishable by fine and imprisonment.

11-Jun-2002

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SD069

**NEW YORK SALES TAX UNIT EXEMPTIONS**

Buyer certified that the property purchased (or leased) or service purchased hereunder is exempt because

A) Property or service will be resold or rented in ordinary course of purchaser's business conducted under New York's sales tax License Number 52189363202.

B) Property will be directly used by purchaser in his manufacturing operations which are performed as a business.

The buyer is authorized to execute this certificate and claim this exemption (if so stated in "Tax Status" field on the Purchase Order.) Misuse of this certificate by seller, lessor, buyer, lessee, or their representatives is punishable by fine and imprisonment.

11-Jun-2002

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SD070

**CALIFORNIA SALES TAX UNIT EXEMPTIONS**

Buyer certified that the property purchased (or leased) or service purchased hereunder is exempt because

A) Property or service will be resold or rented in ordinary course of purchaser's business conducted under California sales tax License Number SY AS 18-735659.

B) Property will be directly used by purchaser in his manufacturing operations which are performed as a business.

The buyer is authorized to execute this certificate and claim this exemption (if so stated in "Tax Status" field on the Purchase Order.) Misuse of this certificate by seller, lessor, buyer, lessee, or their representatives is punishable by fine and imprisonment.

21-Oct-2005

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SD071

**WASHINGTON SALES TAX UNIT EXEMPTIONS**

Buyer certified that the property purchased (or leased) or service purchased hereunder is exempt because

A) Property or service will be resold or rented in ordinary course of purchaser's business conducted under Washington sales tax License Number 602-413-131.

B) Property will be directly used by purchaser in his manufacturing operations which are performed as a business.

The buyer is authorized to execute this certificate and claim this exemption (if so stated in "Tax Status" field on the Purchase Order.) Misuse of this certificate by seller, lessor, buyer, lessee, or their representatives is punishable by fine and imprisonment.

07-Apr-2008

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SD072

**TEXAS SALES TAX UNIT EXEMPTIONS**

Buyer certified that the property purchased (or leased) or service purchased hereunder is exempt because

A) Property or service will be resold or rented in ordinary course of purchaser's business conducted under Texas sales tax License Number 10615834883.

B) Property will be directly used by purchaser in his manufacturing operations which are performed as a business.

The buyer is authorized to execute this certificate and claim this exemption (if so stated in "Tax Status" field on the Purchase Order.) Misuse of this certificate by seller, lessor, buyer, lessee, or their representatives is punishable by fine and imprisonment.

07-Apr-2008

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SD080

**CADMIUM**

Any product supplied to BAE Systems which contains cadmium must be identified by sending notification in writing to the BAE Systems procurement representative issuing this purchase order.

20-Aug-2001

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SD137

**IDENTIFICATION OF MANUFACTURER OF PRODUCT**

Supplier of the product being delivered against this purchase order shall provide part number and the name or cage code of the manufacturer (mark on shipper [preferred] and/or smallest unit container). Use of other manufacturers or distributors does not relieve the supplier of its responsibility of meeting all of the requirements of this purchase order.

20-JUL-2020

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SD140

**POLITICAL CONTRIBUTIONS, FEES, COMMISSIONS**

This remark applies to all Solicitations and Purchase Orders greater than \$500,000 connected with military equipment intended for the Armed Forces of a Foreign Government or an international organization:

"The articles or services to be supplied under this PO are intended for incorporation in, or for use in connection with, military equipment to be used by the Armed Forces of a Foreign Government or an international organization. Part 130 of the International Traffic in Arms Regulation (ITAR), 22 CFR Part 130, requires Buyer to report if Seller has made, makes or intends to make any payment, loan or donation of \$5,000 or more as a political contribution or a fee or commission in connection with the sale of the articles or services described in this PO, or an end item incorporating such articles. Accordingly, Seller agrees to promptly notify Buyer in writing if it has made, intends to make, or upon the making of, any payment, loan or donation required to be reported by Buyer under Part 130 of ITAR, and Seller agrees to furnish Buyer with information with respect to any such payment to enable Buyer to comply with the reporting requirements of Part 130 of ITAR. Seller agrees that unless it notifies Buyer in accordance with this clause, Buyer may report that Seller and its vendors and subcontractors have not made and do not intend to make any payment, loan or donation required to be reported by Buyer under Part 130 of ITAR. Seller agrees to include this clause in all subcontracts of \$500,000 or more made hereunder. Buyer will furnish to Seller a copy of Part 130 of ITAR on request."

20-Aug-2001

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**TC001**

**TC001 has been replaced by [TC-G](#)**

**22-Jul-2014**

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**TC002**

**TC002 has been replaced by [TC-C](#)**

**22-Jul-2014**

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**TC003**

**TC003 has been replaced by [RFQ-G](#)**

**22-Jul-2014**

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**TC004**

**TC004 has been replaced by [TC-G](#)**

**22-Jul-2014**

**[Back to Top](#)**

**TC005**

**TC005 has been replaced by [TC-C](#)**

**22-Jul-2014**

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TC-G

**TERMS AND CONDITIONS**

BAE Systems Terms & Conditions "BAEDOC USGOV" & "BAEDOC USGOVA" shall be in effect for this Purchase Order or RFQ / RFP, unless otherwise specified.

To obtain the following Terms and Conditions documentation, this link will take you to the BAE Systems Terms & Conditions web page: [Terms and Conditions web page](#). The latest revision of the applicable Terms and Conditions document is in effect for this contract, unless otherwise specified in the contract.

13-Feb-2020

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TC-C

**TERMS AND CONDITIONS**

BAE Systems Terms & Conditions "BAEDOC NONUSGOV" shall be in effect for this Purchase Order or RFQ / RFP, unless otherwise specified.

To obtain the following Terms and Conditions documentation, this link will take you to the BAE Systems Terms & Conditions web page: [Terms and Conditions web page](#). The latest revision of the applicable Terms and Conditions document is in effect for this contract, unless otherwise specified in the contract.

13-Feb-2020

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