

## **Airborne Systems Purchase Order Quality Clauses**

This document describes in detail the contract requirements for Airborne Systems Purchase Order Quality Clauses. All manufactured goods shall contain new and unused components and materials. All inspections and tests performed to ensure compliance with specifications and other technical data package requirements shall use inspection and test equipment that is suitable to demonstrate conformance, be in a known state of calibration, and capable of providing valid measurements. Packing lists, Certifications of Conformance, and Certified Test Reports shall accompany goods, as applicable, and must be received prior to acceptance of goods. Airborne Systems reserves the right to inspect and test all items prior to acceptance.

Note: Web links in this document, other than to the [www.airborne-sys.com](http://www.airborne-sys.com) domain, are subject to change outside of Airborne Systems' control and shall be used for reference only. Verifying accuracy of content shall be the responsibility of the Supplier.

### **Standard Quality Clauses (SQC)**

The following standard quality clauses apply to all Purchase Orders from Airborne Systems. These SQC's apply to all line items in the Purchase Order.

**Note: The Supplier shall flow down all Standard Quality Clauses to Sub-tier Suppliers.**

#### **SQC-01 Right of Entry**

At any time after receipt of a contract (until the same has been completed or duly withdrawn or rejected), after acceptance thereof and during the term, the agents, employees, and contractors of Airborne Systems, or required government agents, may upon reasonable prior notice to Supplier, enter Supplier's premises to determine compliance by the Supplier with the requirements of the contract. The purpose of entry shall include, but is not limited to: auditing of Supplier's Quality Management System and processes, inspection of contracted product, and auditing for regulatory compliance.

Note: Nothing in this clause shall act to relieve the Supplier of any duty to perform inspections or any liability which might arise as a result of the Supplier's failure to perform inspections and to comply with all contractual requirements.

#### **SQC-02 Change Notification**

The Supplier shall notify Airborne Systems of proposed or inadvertent changes to their Sub-tier Suppliers, equipment, or any other changes that would directly affect form, fit or function of the end item, including supplier specification or part revision changes. This notification shall be made within 10 days of knowledge of such changes.

Any changes to materials, processes, or manufacturing sites are considered significant and shall all be reported as well. The Supplier shall notify Airborne Systems Buyer prior to any and all changes taking effect in the manufacturing process.

At a minimum a delta first article in accordance with AS9102 will be required with product delivery on all products built to ASNA's designs, specification, and drawings, after a revision change, or if there is a two year lapse in production of product.

The Airborne Systems Supplier Request for Action/Disposition (SRA) form (Form PUR 7.4.1.4-3) shall be utilized for submitting Change Notification. Contact Airborne Systems Buyer to obtain the form.

## **SQC-03 Calibration Services**

When "Calibration Certification Required" is specified by the Purchase Order or in Purchase Order Clause Appendix A, the Supplier shall provide a test report/calibration certificate for each item calibrated. Each test report/calibration certificate shall contain as a minimum:

- Description or identification of the item.
- List of standards used for traceability. Standards must be traceable to a national standard such as NIST.
- Date of calibration.
- Test results/values.
- Test report/calibration certificate number.

When an instrument has been adjusted or repaired, the calibration results before and after adjustment or repair shall be reported.

## **SQC-04 Deleted**

## **SQC-05 Certificate of Conformance and Record Retention**

Each shipment of items/services delivered shall include a statement of quality (i.e., Certificate of Conformance/Compliance) that certifies the deliverable is compliant with all purchase order, drawing and applicable specification requirements. This statement shall be signed with the position of the signer noted. Supplier's use of various types of signatures (e.g., electronic, typed, rubber stamp) is considered acceptable.

The document that includes the statement of quality shall identify the item/service by Airborne Systems Part Number, Supplier lot number, date of manufacture, serial number, material/process specification and revision, type, class and/or grade, as applicable.

**Objective evidence (i.e., records) to support the statement of quality shall be provided to Airborne Systems and the customer/government upon request; these records shall be maintained for a minimum of ten (10) years after final payment on the purchase order.**

Supplier shall notify Airborne Systems within 10 days of awareness if delivered item/service is later found to be or suspected of being non-conforming.

## **SQC-06 Origin Marking**

Goods manufactured outside of the United States of America shall be marked in compliance with 19 CFR Part 134 and country of origin must be stated on certification documents.

## **SQC-07 Legibility of Paperwork**

Supplier agrees to furnish correct and complete paperwork required in accordance with the purchase order as an integral part of the product purchased by Airborne Systems. All inspection records, certifications and supporting documentation shall be done using permanent, reproducible ink. The Supplier shall ensure legibility and reproducibility of all entries, stamps, imprints and signatures. Errors may be voided by drawing a single line through the entry, recording the correct entry above or adjacent to the voided entry, initialing and dating. Entries shall not be erased, written over or blanked out. The use of liquid paper (i.e., white-out) or correction tape is prohibited.

## **SQC-08 Chemical, Physical and/or Mechanical Test Reports/Data**

One copy of test reports indicating chemical composition, physical and/or mechanical properties including actual test data/results identifiable to each lot or batch shall accompany each shipment of material. Test data shall include actual values obtained from testing of the submitted material lot(s) compared to the specified performance requirements of the product, including whether the item passed or failed to meet the specified requirement. Test methods used shall be in accordance with the methods stated in the specification or drawing. An authorized Supplier representative (including Sub-tier Supplier representatives) shall validate all test reports either by a dated inspection stamp, signature or typed name, accompanied by date and title. The manufacturer name and lot number of materials shall be identified on each document.

Test reports and all test data shall be provided with the proper number of significant digits based upon the level of precision of the measurement instrument, and in an appropriate format to allow a clear and unambiguous interpretation.

All test parameters must pass specified requirements unless the requirement is formally exempted in the Purchase Order via the Request for Deviation process (See SQC-09B) or Airborne Systems authorizes a waiver from the requirement via the Request for Waiver process (See SQC-09A).

When General Quality Clause QC-06 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10) or specified in the Purchase Order text, the test reports/data will be required with the delivery.

## **SQC-09A Request for Waiver**

The Supplier shall not deliver products or perform services that do not conform to the requirements of the purchase order, drawing and/or applicable specification.

When a Supplier determines that a product to be delivered or service to be performed is nonconforming, and the Supplier wants to request permission to waive the requirement that is nonconforming, the Supplier shall place all incomplete manufacturing processes and incomplete services on hold until a formal waiver is approved by Airborne Systems (and its customer, when contractually required). The Supplier shall submit to Airborne Systems "Supplier Request for Action/Disposition" form (Form PUR 7.4.1.4-3). This form will be utilized for documenting the waiver request and approval to ship or proceed, as applicable. See the web link in the SUPPLIERS section to download a PDF or request it by e-mail.

The Supplier shall not deliver the nonconforming product that is subject to a waiver request without the approval of Airborne Systems. All disposition activities in regards to these products and services that are subject to a waiver request shall require the approval of Airborne Systems, and/or its customer, as required.

## **SQC-09B Request for Deviation**

The Supplier shall not deliver products or perform services that do not conform to the requirements of the purchase order, drawing and/or applicable specification.

When a Supplier determines that a product to be delivered or service to be performed cannot be produced or performed in full accordance with the requirements of the purchase order, drawing and/or applicable specification, the Supplier may request permission to deviate from the requirement.

The Supplier shall place all incomplete manufacturing processes and incomplete services on hold until a formal deviation is approved by Airborne Systems (and its customer, when contractually required). The Supplier shall submit to Airborne Systems "Supplier Request for Action/Disposition" form (Form PUR 7.4.1.4-3). This form will be utilized for documenting the deviation request and approval to ship or proceed, as applicable. . See the web link in the SUPPLIERS section to download a PDF or request it by e-mail.

The Supplier shall not proceed further with product or process realization that is subject to a deviation request without the approval of Airborne Systems. All disposition activities in regards to these products and services that are subject to a deviation request shall require the approval of Airborne Systems, and/or its customer, as required.

## **SQC-10 Supplier Delivered Documentation, Positive Traceable Link**

The Supplier shall ensure that there is a positive traceable link between all of the Supplier and Sub-Tier Supplier documents provided to demonstrate compliance with Purchase Order requirements. The positive traceable link shall include the AS part number, AS stock code, and/or PO item description, as applicable. The positive traceable link shall also include the Airborne Systems PO number.

At a minimum, the link shall apply, but is not limited to the following supplier documents:

- Packing Slip/Shipper
- Certificate of Conformance
- Test Reports
- Special Process Certifications

When General Quality Clause QC-11 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10), or specified in the Purchase Order text, this traceable link is required with delivered documents.

## **SQC-11 Shelf Life Documentation Data**

This clause applies to materials with a shelf life defined either by the manufacturer, a specification or drawing, or specified in the Airborne Systems Purchase Order. The Supplier's shipping documents shall state the data required to determine the length of shelf life and the date of expiration of the shelf life such as date of manufacture (DOM), date of shipment (DOS), date of expiration (DOE), and/or the actual period of shelf life from a stated date. The documents shall also state any unique environmental storage conditions required. The supplier shall assure that a minimum of 75% of the shelf life is remaining upon receipt at Airborne Systems.

Each unit container and unit roll shall indicate the batch/lot number and storage conditions, as applicable. Additionally, each outer package of shelf life limited materials shall be prominently marked indicating the type of unique storage required.

When textiles have a shelf life defined by the manufacturer or specification, each unit textile container (e.g., roll, bolt) shall indicate either the date of manufacture and shelf life, or the expiration date.

When General Quality Clause QC-09 and/or QC-12 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10), or specified in the Purchase Order text, the documentation data and indication data will be required with the delivery.

## **SQC-12 Special Process Certifications**

Special processes are defined as those processes which, upon completion of the process, cannot be readily verifiable through direct measurement or evaluation. Examples of Special Processes include, but are not limited to the following:

- Heat Treating
- Welding
- Surface Coatings (plating, anodizing, priming, metal spraying, etc.)
- Surface Treatments (etching, passivation, etc.)
- Nondestructive Testing and Evaluation (radiographic (all wave types), liquid penetrant, magnetic particle, ultrasonic, eddy current, etc.)

The Supplier shall provide a certification for each special process performed as specified in the drawing, specification and/or purchase order. Evidence of certification of special processes performed by Sub-tier Suppliers shall also be provided.

When General Quality Clause QC-07 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10), or specified in the Purchase Order text, the certification(s) will be required with the delivery.

When General Quality Clause QC-28 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10), or specified in the Purchase Order text, only Airborne Systems approved Special Process suppliers will be allowed to perform those special processes.

## **SQC-13 Safety Data Sheets (SDS)**

Safety Data Sheets shall be submitted with each shipment when the item delivered contains hazardous chemicals. The SDS shall provide specific minimum information as detailed in Appendix D of 29 CFR 1910.1200.

When General Quality Clause QC-08 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10), or specified in the Purchase Order text, an SDS will be required with the delivery.

## **SQC-14 New Material**

All goods shall be manufactured using new and unused components and materials. Use of remanufactured or refurbished materials or components is prohibited.

## **General Quality Clauses (QC)**

The following general quality clauses are Purchase Order specific and apply to all line items in the Purchase Order. The Supplier shall meet the general quality clause requirements stated in the Purchase Order and its Appendix A (Form PUR 0100-10). The Supplier shall be responsible for flowing down all applicable general quality clauses to their Sub-tier Suppliers (See Standard Quality Clauses above for additional flow down requirements).

### **QC-01 Inspection System per MIL-I-45208**

This clause shall be used for suppliers performing inspection and testing services only. Items shall be inspected and/or tested under an Inspection System that conforms to MIL-I-45208. **Additionally, General Quality Clauses QC-30 and QC-31 shall be invoked.**

### **QC-02 Quality Program per MIL-Q-9858**

Items shall be produced under a Quality Program that conforms to MIL-Q-9858. **Additionally, General Quality Clauses QC-30 and QC-31 shall be invoked.**

### **QC-03 Quality Management System per ISO 9001/AS9100**

Items shall be produced under a Quality Management System that conforms to ISO 9001 and/or AS9100.

### **QC-04 Airborne Systems Source Inspection**

The Supplier shall be subject to surveillance and inspection of products, processes, systems, procedures and facilities by Airborne Systems, or their designated representative. Facilities and equipment required to perform source inspection shall be provided by the Supplier without cost to Airborne Systems. Prior to delivery, the Supplier shall contact Airborne Systems Buyer to coordinate the source inspection of each shipment at least seven (7) days in advance of desired shipping date. No items shall be shipped without Source Inspection approval and evidence of source inspection shall be provided with the delivered items.

### **QC-05 Government Source Inspection**



During performance on this order, Supplier's Quality System and manufacturing processes are subject to review, verification and analysis by authorized Government Representatives. Facilities and equipment required to perform Government surveillance shall be provided by Supplier without cost to the Government. Government inspection or release of product prior to shipment is not required unless otherwise specified in this section.

Site selection for Government source inspection and/or data review is at the discretion of the Government Representative, if at the time of the issuance of the PO, an inspection site has been selected, the quality clause shall be identified with the suffix "A" or "S" as follows;

**QC-05A** – Government inspection of purchased products may be conducted at Airborne Systems upon receipt. Unless otherwise notified by Government Representative to designate a Receiving Inspection hold point, all purchased products shall be processed to stock upon acceptance, and all associated receiving data and certification packages are available for Government's review at any time during subsequent manufacturing processes and upon shipment of end item. (Note: when QC-05A is imposed, the evidence of Government source acceptance on Supplier's document is not required).

**QC-05S** – Government inspection is required prior to shipment from Supplier's plant. Evidence of Government acceptance must be indicated on the shipping document. Upon receipt of this purchase order, the Supplier shall contact their Government Quality Assurance Representative (i.e., DCMA QAR) to establish proper source inspection point(s). Supplier shall contact DCMA QAR at least seven (7) days in advance of desired inspection date.

## **QC-06 Chemical, Physical and/or Mechanical Test Reports/Data - See SQC-08**

When General Quality Clause QC-06 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10), or specified in the Purchase Order text, the test reports/data as described in SQC-08 will be required with the delivery.

## **QC-07 Special Process Certifications - See SQC-12**

When General Quality Clause QC-07 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10), or specified in the Purchase Order text, the certification(s) as described in SQC-12 will be required with the delivery.

## **QC-08 Safety Data Sheets (SDS) - See SQC-13**

When General Quality Clause QC-08 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10), or specified in the Purchase Order text, an SDS as described in SQC-13 will be required with the delivery.

## **QC-09 Shelf Life Documentation Data – See SQC-11**

When General Quality Clause QC-09 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10), or specified in the Purchase Order text, shelf life documentation as described in SQC-11 will be required with the delivery.

## **QC-10 Handling and Packaging for Electrostatic Discharge (ESD) Sensitive Items**

The items on this Purchase Order are ESD sensitive and shall be handled per the requirements of ANSI/ESD S20.20, MIL-STD-1686 or JESD625. These ESD sensitive items shall be packaged in static-dissipative packages, tubes, carriers, etc., as appropriate for the items to be

shipped. The packaging for the items shall be clearly labeled to indicate that it contains ESD sensitive items.

The static-dissipative packaging (packages, tubes, carriers, etc.) shall be marked or labeled to indicate that they are made of static-dissipative materials.

## **QC-11 Supplier Delivered Documentation, Positive Traceable Link – See SQC-10**

When General Quality Clause QC-11 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10), or specified in the Purchase Order text, positive traceable linked documentation as described in SQC-10 is required within delivered documents.

## **QC-12 Textile Defect Marking, Age and Limited Life – See SQC-11**

All major textile defects shall be clearly marked, as required by the applicable specification.

Unless otherwise specified on the purchase order, all textile material shall be less than one (1) year from the date of manufacture when received by Airborne Systems. When textiles have a limited life defined by the manufacturer or specification they shall be subject to the requirements of SQC-11.

When General Quality Clause QC-12 is selected on Purchase Order Quality Clauses Appendix A (Form PUR 0100-10), or specified in the Purchase Order text, shelf life documentation data and indication data as described in SQC-11 will be required with the delivery, as applicable to limited life textiles.

## **QC-13 Specialty Metals**

This order is subject to the requirements of DFARS 252.225-7009 Restriction of Acquisition of Certain Articles Containing Specialty Metals found at:

<http://www.acq.osd.mil/dpap/dars/dfars/html/current/252225.htm#252.225-7009>

A statement certifying compliance to DFARS 252.225-7009 shall be included for each shipment of item delivered. This statement shall be signed with the position of the signer noted and may be included as a part of the Certificate of Conformance. The statement shall identify the material or item by lot, date of manufacture, and/or serial number, revision date and/or grade, as applicable. Upon request, the Supplier shall provide objective evidence to support the origin of raw material to Airborne Systems and the customer/government.

**Note: This clause or equivalent provisions shall be flowed down to Sub-tier Suppliers.**

## **QC-14 Berry Amendment**

This order is subject to the Berry Amendment requirements of DFARS Subpart 252.225.70 Authorization Acts, Appropriations Acts, and Other Statutory Restrictions on Foreign Acquisition; specifically DFARS 252.225-7012 Preference for Certain Domestic Commodities, but not limited to DFARS 252.225.7002-1 Restrictions and DFARS 252.225.7002-2 Exceptions found at:

<http://www.acq.osd.mil/dpap/dars/dfars/html/current/252225.htm#252.225-7012>



Note that the Simplified Acquisition Threshold (SAT) applies to the value of the contract between Airborne Systems and our customer, not the value of the contract between Airborne Systems and our supplier.

A statement certifying compliance to DFARS 252.225-7012 shall be included for each shipment of item delivered. This statement shall be signed with the position of the signer noted and may be included as a part of the Certificate of Conformance. The statement shall identify the material or item by material or item description and by an applicable and traceable manufacturing identifier (i.e., lot number, date of manufacture and/or serial number, revision date, roll and/or case number, etc.). Additionally, this statement shall also identify the manufacturing traceability identifier (i.e., merge number, yarn lot number, etc.) of the yarn and/or fiber used in the manufacture of the material or item. Upon request, the Supplier shall provide objective evidence to support the origin of raw material to Airborne Systems and the customer/government.

**Note: This clause or equivalent provisions shall be flowed down to Sub-tier Suppliers.**

## **QC-15 Certificate of Origin**

Each shipment of items delivered shall include a statement certifying origin of the raw material that went into producing each item (for textiles, origin of where yarn and/or fiber was manufactured; for metals, origin of where raw metal stock was melted). This statement is to be provided by the originating Supplier (i.e., Sub-tier yarn Supplier or Sub-Tier raw metal stock Supplier, etc.) and signed by the originating Supplier with the position of the signer noted.

The statement shall identify the location of where the raw material originated and identify the raw material by item description and by an applicable and traceable manufacturing identifier (i.e., lot number, merge number, date of manufacture and/or serial number, revision date and/or grade). Upon request, the Supplier shall provide objective evidence to support the origin of raw material to Airborne Systems and the customer/government.

**Note: This clause or equivalent provisions shall be flowed down to Sub-tier Suppliers.**

## **QC- 16 Buy American Act**

This order is subject to the Buy American Act of FAR Subpart 52.225-1 Buy American Act—Supplies; 52.225-2 Buy American Act Certificate; 52.225-5 Trade Agreements; and 52.225-6 Trade Agreement Certificates found at:

[http://farsite.hill.af.mil/reghtml/regsfar2afmcfars/fardfars/far/52\\_220.htm#P1440\\_241751](http://farsite.hill.af.mil/reghtml/regsfar2afmcfars/fardfars/far/52_220.htm#P1440_241751)

A statement in accordance with FAR 52.225-2 (or FAR 52.225-6 as applicable) shall be included for each shipment of item delivered. This statement shall be signed with the position of the signer noted and may be included as a part of the Certificate of Conformance. Upon request, the Supplier shall provide objective evidence to support the origin of raw material to Airborne Systems and the customer/government.

**Note: This clause or equivalent provisions shall be flowed down to Sub-tier Suppliers.**

## **QC-17 Pressure Vessel Test Data**

Pressure vessel test data, including hydrostatic testing results, shall be provided. The Supplier shall certify product compliance with all applicable regulatory specifications; including, but not limited to the U.S. Department of Transportation and the Compressed Gas Association.

Test reports and all test data shall be provided with the proper number of significant digits based upon the level of precision of the measurement instrument, and in an appropriate format to allow a clear and unambiguous interpretation.

All test parameters must pass specified requirements unless the requirement is formally exempted in the Purchase Order via the Request for Deviation process (See SQC-09B) or Airborne Systems authorizes a waiver from the requirement via the Request for Waiver process (See SQC-09A).

## **QC-18 Build to Print**

Order shall be manufactured to Technical Data Package (TDP) files (drawings, specification, etc.) supplied with Purchase Order. Any deviation or waiver from TDP requirements shall require written approval from Airborne Systems (See SQC-09B Request for Deviation; See SQC-09A Request for Waiver).

Unless otherwise specified on the Purchase Order, the drawing is the legal binding and controlling document for a part or assembly. At the request of the Supplier and under the authorization of the responsible Program Manager, "Reference Data" in the form of 3-D models or electronic CAD files may be provided to assist in the facilitation of fabrication processes. The Supplier receives this "Reference Data" with the understanding and acknowledgement that all inspection, measurement and test shall be performed in accordance with the drawing requirements. Any errors that result from the use of electronic CAD files will be the sole responsibility of the Supplier.

## **QC-19 Government/Customer Furnished Property**

This order includes Airborne Systems providing either Government or Customer furnished property to the Supplier. As a result there are specific controls required of the Supplier regarding this property. Please contact Airborne Systems for details related to this purchase order.

## **QC-20 Small Business Plan**

Supplier shall comply with requirements of FAR 52.219-9 Small Business Subcontracting Plan. Information available at:

[http://farsite.hill.af.mil/reghtml/regsfar2afmcfars/fardfars/far/52\\_215.htm#P1314\\_223740](http://farsite.hill.af.mil/reghtml/regsfar2afmcfars/fardfars/far/52_215.htm#P1314_223740)

## **QC-21 Oxygen Clean**

Product shall be oxygen cleaned in accordance with drawing and/or specification requirements. Each shipment shall be accompanied by a Signed Certification or statement on the Certificate of Conformance that parts were cleaned in accordance with drawing and/or specification requirements. All parts shall be packaged to maintain oxygen cleanliness and packaging shall be labeled to identify the parts as oxygen clean.

## **QC-22A First Article Inspection (FAI) Report**

The supplier shall perform a First Article Inspection (FAI) Report in accordance with AS9102 and deliver the report with the initial shipment of the FAI item. The FAI Report shall be accompanied

by a bubble/balloon outlined drawing corresponding to the details documented on AS9102 Form 3. When a partial FAI is performed as required by AS9102, the Supplier shall deliver a copy of the FAI Report with the shipment of the FAI item.

Test reports and all test data shall be provided with the proper number of significant digits based upon the level of precision of the measurement instrument, and in an appropriate format to allow a clear and unambiguous interpretation.

## **QC-22B Inspection Report**

The supplier shall provide objective evidence, with each shipment, that the deliverable end item conforms to contract requirements. Objective evidence records shall at a minimum include;

- Part number and revision,
- Purchase Order number,
- Serial, lot, batch, and date code number(s) as applicable,
- Identification of the person performing the inspection,
- Lot size and sample size of inspected items,
- End item features, dimensions, notes, and/or requirements and associated tolerances as applicable,
- Actual inspection results including ranges of variation recorded during inspection,
- Inspection, measurement and test equipment (IM&TE) used on each feature inspected,

All inspection results must pass specified requirements unless the requirement is formally exempted in the Purchase Order via the Request for Deviation process (See SQC-09B) or Airborne Systems authorizes a waiver from the requirement via the Request for Waiver process (See SQC-09A).

Inspection reports and all inspection data shall be provided with the proper number of significant digits based upon the level of precision of the measurement instrument, and in an appropriate format to allow a clear and unambiguous interpretation.

## **QC-23 FOD Prevention Program**

The Supplier shall establish and maintain an effective Foreign Object Debris (FOD) prevention program to eliminate FOD in items delivered to Airborne Systems. The Supplier's program shall utilize effective FOD prevention practices. Industry standard NAS 412 may be used as a guideline in complying with this requirement. The program shall be proportional to the sensitivity of the design of the product(s) to FOD, as well as to the FOD generating potential of the manufacturing methods used.

## **QC-24 Software QA Plan**

The Supplier shall establish and implement a Software Quality Assurance Plan to ensure that deliverable software and non-deliverable software used directly for the design, fabrication, inspection, test or service of deliverable articles is controlled and complies with the intent of SAE AS9115 for deliverable software and SAE ARP9005 for non-deliverable software.

**QC-25 Deleted**

**QC-26 Heat Treat Approval**

Heat Treat shall be verified on a lot basis in accordance with the requirements set forth in the applicable heat treat specification. Evidence of this verification shall be provided to and approved by Airborne Systems on a lot-by-lot basis prior to continuing any further processing (i.e., additional operations such as plating, NDT, etc.) on the lot or order

**Note: This clause or equivalent provisions shall be flowed down to Sub-tier Suppliers.**

**QC-27 Counterfeit Part Prevention**

Only new and authentic materials are to be used in products delivered to Airborne Systems. Accordingly, Suppliers shall not deliver any counterfeit parts, and shall immediately disclose to Airborne Systems if they are aware of, or suspect, any counterfeit parts. Suppliers shall maintain documentation to authenticate traceability of items to applicable Original Equipment Manufacturer (OEM) or Original Components Manufacturer (OCM) to the lowest level of separately identifiable items.

Electronic components shall only be procured from OCM or from OCM franchised distributors. Independent distributors not franchised by the OCM shall not be used only without prior written approval by Airborne Systems. Depending on the type of component and its use, Airborne Systems reserves the right to define inspections and tests deemed necessary to ensure the component conforms with requirements.

Components procured from distributors who are not franchised by the OCM shall be delivered with a copy of the OCM's Certificate of Compliance (CoC).

**Note: This clause or equivalent provisions shall be flowed down to Sub-tier Suppliers.**

**QC-28 Airborne Systems Approved Special Process Suppliers**

Special processes are defined as those processes which, upon completion of the process, cannot be readily verifiable through direct measurement or evaluation. Examples of Special Processes include, but are not limited to the following:

- Heat Treating
- Welding
- Surface Coatings (plating, anodizing, priming, metal spraying, etc.)
- Surface Treatments (etching, passivation, etc.)
- Nondestructive Testing and Evaluation (radiographic (all wave types), liquid penetrant, magnetic particle, ultrasonic, eddy current, etc.)

When any special processes are required by engineering drawings, specifications, and/or Purchase Order, the Supplier shall ensure that only Airborne Systems approved Special

Process suppliers are used to perform the special processes for items to be delivered on this Purchase Order.

Upon receipt of purchase order, the Supplier shall submit to Airborne Systems a “Special Process Supplier Disclosure and Approval” form (Form No. PUR 7.4.1.4-2) along with the Purchase Order acknowledgement. . See the web link in the SUPPLIERS section to download a PDF or request it by e-mail.

**Note: This clause or equivalent provisions shall be flowed down to Sub-tier Suppliers.**

## **QC-29 Wood packaging**

When natural wood packaging is required by engineering drawings, specifications, and/or Purchase Order, the Supplier shall ensure that it is in conformance with ISPM 15 Regulation of Wood Packaging Material in International Trade. A copy of the standard can be found at:

[ISPM standards](#)

## **QC-30 Preservation of Items and Constituent Parts**

The Supplier shall preserve manufactured items during internal processing and delivery in order to maintain conformity to applicable engineering drawings, specifications, and/or Purchase Order requirements. Preservation shall include identification, handling, packaging, storage and protection, as applicable. Preservation shall also apply to the constituent parts of manufactured items.

The Supplier shall ensure that Preservation includes provisions for the following, as applicable:

- Cleaning,
- Delivery method,
- Prevention, detection and removal of foreign objects,
- Special handling for sensitive products,
- Marking and labeling including safety warnings,
- Shelf life control and stock rotation,
- Special handling for hazardous materials.

**Note: This clause or equivalent provisions shall be flowed down to Sub-tier Suppliers.**

## **QC-31 Sampling Inspection Not Permitted Without Airborne Systems Approval**

The Supplier shall prepare and maintain an inspection record validating 100% compliance with each engineering requirement of the deliverable item. Sampling plans shall not be used to accept item features and/or dimensions of serialized hardware, unless specifically authorized by Airborne Systems in the Purchase Order.

When authorized by Airborne Systems, the Supplier may perform acceptance inspection of non-serialized hardware using a sampling procedure approved by Airborne Systems. Contact Airborne Systems Buyer to request authorization to perform sampling inspection.

When the Supplier uses sampling inspection as a means of product acceptance, the sampling plan shall be justified on the basis of recognized statistical principles and appropriate for use (i.e., matching the sampling plan to the criticality of the product and to the process capability).

Unless otherwise specified in the material specification and/or the purchase agreement, sampling of material lots shall only be in accordance with standard and current sampling plans (e.g. ANSI/ASQ Z1.4, ANSI/ASQ Z1.9, MIL-STD-1916, Zero Acceptance Number Sampling Plans, etc.). The sampling plan shall preclude the acceptance of lots whose samples have known nonconformities (i.e., C=0).

Airborne Systems will review the Supplier request for sampling inspection based upon the Supplier's proposed sampling plan, criticality of the feature/dimension, the capability and stability of the process, and the variable or attribute nature of the dimensional measurement. The Supplier shall not implement the sampling plan until written authorization is received from Airborne Systems. When the Supplier wishes to implement a different sampling plan, Airborne Systems approval shall be obtained prior to its implementation.

**Note: This clause or equivalent provisions shall be flowed down to Sub-tier Suppliers.**