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Rev: 21

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## **SQ-100**

# Supplier Quality System Requirements



This document was established in order to meet specific work requirements and ensure conformance to established quality and safety standards.

This document will be reviewed at least every 12 months.

Process Owner:	Senior Manager of Supplier Quality
Stakeholder:	Director of Quality
Stakeholder:	Purchasing Manager

# YULISTA

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#### 1.0 PURPOSE AND SCOPE

The intent of this document is to serve as a requirement and a general guide to the extent that quality control is required for suppliers and subcontractors. For the purposes of this document, suppliers and subcontractors will be collectively referred to as "suppliers" and the Purchase Order (PO) or Subcontractor Agreement issuer will be referred to as "contractor." "Purchasing Representative" refers to the contractor's buyer.

#### 2.0 ROLES AND RESPONSIBILITIES

The requirements contained in this document must be adhered to by the supplier. In the event a supplier desires an exception to the requirements contained herein, a Supplier Deviation Request (Appendix A) will be submitted to the Purchasing Representative (Buyer) in order to retain the contractor's Quality Team approval, prior to acceptance of a PO. If a conflict exists between the provisions of this document and those of the PO, the PO will take precedence.

#### SUPPLIER CONTRIBUTION

The supplier is responsible for providing conforming product(s) and/or service(s) regardless of any outsourcing or involvement of sub-tier suppliers at any point in the supply chain.

The supplier will establish safe practices within its organization in order to protect the life and health of employees, contractors, subcontractors, and other personnel in supplier facilities. These practices will be implemented to prevent loss through injury, disablement, or damage to property, materials, equipment or the environment. The supplier will also enforce the importance of ethical behavior within its work place, as well as within any applicable element of its supply chain. More information regarding ethical requirements of suppliers can be found in YM-PURCoC-01, Yulista Code of Conduct.

#### SUPPLIER INTERACTIONS WITH THE CONTRACTOR

Changes in pricing, delivery specifications, scope of work, and other direction will be communicated to the supplier in writing by the contractor's Purchasing Representative. Failure to comply with these requirements will be cause for rejection of shipment as nonconforming material and/or disapproval from the contractor's Approved Vendor List (AVL).

#### **DEVIATIONS AND SUBSTITUTIONS**

The supplier is required to comply with the specific requirements of any associated PO or Subcontract. No deviations, changes and/or substitutions in material, design, specifications, product configuration, or operating performance are permissible unless documented by a change order generated by the contractor's Purchasing Representative or an approved deviation request. In order to request a change order or deviation, the supplier will submit YF-4.4.0-02, *Supplier Deviation Request* (located in Appendix A of this document), to the contractor's Purchasing Representative. The Purchasing Representative will forward the request for approval, as required by the contractor's quality processes. In addition, suppliers will not provide a substitute part or part number under any PO without written approval from the Purchasing Representative. Failure to comply with this requirement will be cause for rejection of shipment as nonconforming material.

#### **PRODUCT NOTICES**



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All component or materials related notifications, including Product Change Notifications (PCN), Product Discontinuation Notices (PDN), End-Of-Life Notifications (EOL), Last-Time Buy (LTB) or Last-Time Ship (LTS) Notifications, Quality Alerts/NOE, and/or GIDEP related notifications should be electronically sent to <a href="mailto:productdefinition@yulista.com">productdefinition@yulista.com</a> AND <a href="mailto:supplierquality@yulista.com">supplierquality@yulista.com</a>.

#### 3.0 TRAINING

Departments / Programs Requiring Training	Position	Frequency / Comments
Supplier Quality	All levels	As revised
Purchasing	All levels	As revised

#### 4.0 DEFINITIONS AND ACRONYMS

	IONS AND ACKONTINS
ANSI	American National Standards Institute
ATP	Acceptance Test Plan
AVL	Approved Vendor List
AWS	American Welding Society
BGA	Ball Grid Array
BTP	Build-to-Print or Build to a drawing
CC	Critical Characteristics
CCA	Circuit Card Assembly
CCAP	Counterfeit Components Avoidance Program
COA	Certificate of Authentication
CoC	Certificate of Conformance
CARC	Chemical Agent Resistant Coating
CSI	Critical Safety Items
ESD	Electrostatic Discharge
FAI	First Article Inspection
FIFO	First In - First Out
FOD	Foreign Object Damage
GHS	Globally Harmonized System
GIDEP	Government-Industry Data Exchange Program
HAZMAT	Hazardous Material
MIL-SPEC	Military Specification
MTR	Material Test Report
NCR	Nonconforming Material
NIST	National Institute of Standards and Technology
ODC	Ozone Depleting Chemical
ODS	Ozone Depleting Substance
OEM	Original Equipment Manufacturer
OCM	Original Component Manufacturer
OSHA	Occupational Safety and Health Administration
PCB	Printed Circuit Board



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PO	Purchase Order
QMS	Quality Management System
QPD	Qualified Product Database
RMA	Return Material Authorization
RTS	Return to Supplier
RoHS	Restriction of Hazardous Substances
SCAR	Supplier Corrective Action Request
SDS	Safety Data Sheet
SOW	Statement of Work
SPC	Statistical Process Data
TDP	Technical Data Package

#### 5.0 PROCEDURE

Supplier Types

Clauses applying to all suppliers are:

- QC-01
- QC-02
- QC-03
- QC-04
- QC-05
- QC-06
- QC-07
- QC-08
- QC-11
- QC-17
- QC-18
- QC-21
- QC-22
- QC-31
- QC-32

Specific clauses for supplier beyond exclusive clauses:

- Aviation Components (Airworthiness): QC-19
- Electronic Assemblies: QC-23, QC-26, QC-21
- PWB: QC-24, QC-21
- CCA: QC-23, QC-25, QC-15, QC-10, QC-12, QC-13
- Painting: QC-29, QC-27, QC-12, QC-10, QC-15, QC-21
- Finishing: QC-29, QC-27, QC-12, QC-10, QC-15, QC-21
- Distributors
  - Tooling
  - Electronics
  - o Consumables



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Welding/Brazing: QC-15, QC-21, QC-12, QC-30

- Raw Materials QC-28
- Heat Treatment

#### QC-01 PROCESS CONTROL

The supplier will maintain control and approval of all manufacturing processes – such as welding, soldering, plating, painting, and inspection processes – used in the fulfillment of any associated PO. The supplier will maintain objective evidence of process qualification in accordance with applicable specifications, the approval status of which will be subject to review and may be disapproved by the contractor. Any deviation from required materials and/or processes that affect fit, form, or function (such as base material to be subjected to cleaning, etching, anodizing, sealing, plating and stress-relief as necessary to yield coatings meeting all requirements of specification) will be reported to the contractor's Purchasing Representative in order to obtain contractor's quality approval prior to use or application.

The supplier will notify the contractor's quality department via the Purchasing Representative identified on the PO of changes to processes, products, or services, including changes of their external providers or location of manufacture, and obtain the contractor's approval prior to delivery of product(s) and service(s).

#### QC-02 APPROVAL OF PRODUCTS AND SERVICES

Supplier acceptance of a PO indicates that the supplier has the full capability and all elements necessary to provide conforming product(s) and/or service(s) to the contractor for all products and/or services described in a PO. Elements include, but are not limited to, tooling, equipment, capacity, and qualified personnel. Delivery of non-conforming product due to insufficient, or inadequate, resources for these elements may result in disqualification from the AVL. Approval is based upon conformity as determined by the contractor's internal inspection and test procedures.

#### QC-03 RELEASE & DISPOSITION OF PRODUCTS AND SERVICES

Supplier conformance with this document as well as a PO are required before the release of product(s) and/or services to the contractor. Non-conforming product will not be delivered to the contractor unless prior authorization is received in writing from the Purchasing Representative. The supplier will also immediately notify the contractor's Purchasing Representative in writing of all non-conforming product malfunctions, defects, and un-airworthy conditions found after delivery. Any technical data, excess material, or other items provided to the supplier by the contractor are subject to approval by the contractor prior to disposition.

#### QC-04 RIGHT TO ACCESS: SURVEYS AND AUDITS

Upon notice, supplier facilities and operations may be surveyed at any level of the supply chain, either before or after the placement of any PO, in order for the contractor to verify the supplier has the capabilities necessary to supply a product of consistent quality. When appropriate, the PO will detail any additional rights to inspect the vendor's premises and applicable records by Yulista, the customer, and/or appropriate authorities. Upon notice, audits may be conducted to determine compliance with purchase requirements and the requirements of this document.

#### **QC-05 SUB TIER-SUPPLIERS**



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The supplier is required to assure that their sub-suppliers maintain an adequate inspection and quality system to assure product conformance. Each inspection or testing activity will have documentation that describes detailed requirements such as parameters to be checked, statistical methods, sampling plan, nonconformance criteria, etc. Suppliers must flow down all requirements on any associated PO or subcontract agreement, including key characteristics, to all sub-suppliers. The use of sub-suppliers does not release the supplier of responsibility for the end product or service to the contractor.

#### QC-06 SUPPLIER QUALIFICATION AND CONTINUED MEASUREMENT

The supplier will have a quality management system (QMS) or the proper certifications in place for the products and/or services requested that is acceptable to the contractor. If a supplier is a soul source OEM for components or services they can be evaluated, approved, and added to the Yulista AVL for the specific components or services needed by Yulista. Suppliers already certified to ISO9001, AS6081, AS9100, AS9110, AS9120, or are FAA Part 145 Repair Station-approved are preferred. One or more of the following will determine qualified suppliers, as well as a suppliers' on-going presence on the AVL: anti-counterfeiting programs; manufacturing and engineering capability surveys; product evaluation; compliance of procured material with PO requirements; quality system audits; and/or the promptness and effectiveness of corrective action taken by the supplier. A supplier's on-going presence on the AVL will be contingent upon satisfactory delivery performance, incoming inspection results, service levels, and periodic reviews.

Continued measurement of approved suppliers is based on the aforementioned elements in the form of a supplier rating. This rating will provide comparative measures for determining procurement sources and is calculated by a combination of the following:

- Product acceptance is 60% of the overall score to include all non-conformances found during any inspection or testing process as well as any SCARs issued, and
- On-time delivery performance is 40% of the overall score.

#### QC-07 SUPPLIER QUALITY SYSTEM REQUIREMENTS AND IMPROVEMENTS

The supplier's quality system will include a process that ensures professional services and products are initially tested and periodically re-tested in order to assess the supplier's ability to meet all requirements. All workmanship and engineering specifications will be documented.

The supplier's quality system should be documented in a quality manual and traceable to a standard subset of procedures and work instructions. It will be the responsibility of the supplier to perform internal audits on a periodic basis, and to maintain a quality system in compliance with terms agreed upon with the contractor.

The supplier will establish and maintain a quality improvement program to improve and sustain the quality and reliability of the processes/product. The program will be active and contain a prioritized list of scheduled quality issues being addressed. Completed internal corrective action reports made by the supplier will be maintained in a recurrence file. Whenever it is suspected that a quality problem may be a recurrence of a similar problem on which a corrective action has been completed, the supplier's recurrence file will be examined.



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#### **QC-08 QUALITY RECORDS**

Suppliers' quality records for products and deliverables will be retained by the supplier for the duration of the contract, and thereafter for seven (7) years from the inspection and acceptance of the last delivery. All Critical Safety Item Records will be retained an additional seven (7) years. At a minimum, records will include product identification, quantity of product inspected, inspection procedures followed, inspector, tester, quality representative, date of inspection, and number, type, and severity of defects found. These records will be sufficient to prove conformance to all applicable specifications and drawings. Upon request, these records will be made available to the contractor within two (2) business days.

#### **QC-09 TRAINING**

Supplier personnel performing inspection, testing, assembly, integration and manufacturing will be trained for the appropriate skill they are performing. When requested, records of such training will be made available to the contractor. Additional personnel qualifications, if any, will be indicated on a PO.

#### QC-10 CALIBRATION CONTROL

The supplier's quality organization will audit records and equipment to ensure that no "out-of-calibration" equipment is being used during testing and inspection of products provided to the contractor. The supplier will control the calibration of all measuring devices against certified standards traceable to the National Institute of Standards and Technology (NIST). The supplier will notify the contractor's Purchasing Representative of any items found to be out of calibration that effect any product delivered to the contractor as soon as it is discovered including any time after delivery.

All test equipment will be validated to assure that it has the accuracy and resolution to measure the parameters being tested. The test equipment will maintain repeatability within its allowable tolerances. All calibration will be traceable to relevant and appropriate standards. Tools, gauges, test equipment, etc., that are inactive or that do not require calibration will be so identified.

Supplier calibration control is subject to audit and review by a contractor quality representative.

#### QC-11 CERTIFICATE OF CONFORMANCE (COC)

#### **GENERAL REQUIREMENTS**

In order to assure conformity to the PO requirements, all deliveries to the contractor will be accompanied by a certificate of conformance (CoC), with the exceptions noted in "Raw Materials" (below) and provided by an authorized member of the suppliers' quality management team. The CoC will serve as written verification that all parts, materials, processes, and finished items to be supplied under this or any associated PO or subcontract have been inspected, tested, and found to comply with the requirements of the PO.

Revisions of referenced documents invoked by reference on the PO—such as military specifications (MIL-SPEC), military standards (MIL-STD), drawings, and specifications or other revision-controlled requirement documents—in effect as of the date of the PO.



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A CoC from an original equipment manufacturer (OEM) or original component manufacturer (OCM) of a product can be used in lieu of a supplier's (i.e. distributor, etc.) CoC. The OEM / OCM must provide traceability to the item on the original PO (e.g. part number, MIL-SPEC or MIL-STD, NSN number, etc.).

#### Certificates of Conformance requirements:

- Supplier's name and address
- Purchase Order number, Yulista part number / Revision Number, OR a commercial OEM P/N, P/N. NOTE: When procuring to a manufacturer's P/N or Industry Specification (typically "commercial off-the-shelf" items), the Yulista P/N and Revision level are not required (typically build-to-print items or services).
- CoC must be legible.
- If a CoC includes a signature line or field, it must be signed by an authorized agent or include typed or printed name and dated. A QC stamp is acceptable.
- Any process or material certs must be tied to the CoC by a minimum of one of the following: lot number, P.O. number, or item serial number.

#### **ELECTRONICS ITEMS OR COMPONENTS**

For active electronic components, the OCM certificate of authentication (COA) will be provided unless the supplier is an authorized distributor. The CoC from an authorized distributor is acceptable as evidence the components are genuine when it states the supplier is an authorized distributor for the OCM, and states the components were obtained directly from the OCM or from supplier-manufacturer authorized channels and meet the PO requirements.

#### **SERVICES**

Process Certifications (e.g. heat treating, plating, calibration, etc.): Attachments of supporting certificates must be tied to the CoC by using any combination of the following: An item's part number, Yulista PO number, item serial number, lot number, work order number and/or materials heat lot number. When tests are to be performed to an industry standard (e.g. ASTM, AS MILSTD, etc.), record the standard number and revision. The revision of the standard is to be the most current revision in effect at time of test.

#### **RAW MATERIALS**

Wherever possible a Mill/Materials Test Report (MTR) should be provided for metals items in lieu of a CoC. An MTR—also referred to as a Certified Material Test Report, Metallurgical Test Report, Mill Test Certificate (MTC), Inspection Certificate, or Certificate of Test—will certify the material's chemical and physical properties, and that it is in compliance with an international standards organization's specific standards.

The MTR will typically contain and certify the following:

- Product description: The metal product's alloy, temper, size, shape, and/or diameter specifications including thickness, width, and finish.
- Heat Number or Lots: The identifying heat code that describes the metal's origin, sometimes referred to as a lot number.
- Mechanical & Physical Properties: Strength, ductility, hardness, and/or elasticity.



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- Chemical Properties: The chemical makeup of the metal alloy must fall within the required ranges.
- Additional Details: Country of melt and manufacture, ASTM / ASME standards compliance (the revision of the standard is to be the most current revision in effect at time of production and testing), special conditions to include customer specification codes.

The MTR or Material Certification must be tied to the packing slip by using any combination of the following: An item's material grade / part number or the materials heat lot number(s). When tests are to be performed to an industry standard (e.g. ASTM, AS MIL-STD, etc.), record the standard number and revision.

Purchase orders for Metals items which are subject to the Specialty Metals Restriction under 10 U.S.C. 2533b, Public Law 107-107 Section 832, and Federal Acquisition Regulation Supplement (DFARS) 252.225-7008, 252.225-7009(a)(11) & 225.872-1: the PO will contain notes stating that the material(s) must be "DFARS Compliant". The supplier packing slip and/or MTR or Material Certification should clearly state compliance with this requirement. When the contractor furnishes material to the supplier, the supplier will verify that the correct material has been received IAW the accompanying CoC, including material certifications, and/or drawings.

#### **QC-12 TRACEABILITY**

The supplier will provide objective evidence of the quality of the item supplied, including manufacturing, assembly, inspection, test, and special process records. All records relating to special requirements, key characteristics, and critical safety items (CSIs) will be clearly identified and traceable to the date and place of production, OEM, or OCM. Recorded evidence will provide the degree of traceability required to enable subsequent verification of all aspects of material, manufacture, special processes, personnel certification, variability control charts, assembly, and inspection of critical characteristics (CCs).

#### 5.13 QC-13 INSPECTION AND TEST

Each inspection or testing activity will have documentation that describes detailed requirements such as parameters to be checked, statistical methods, sampling plan, nonconformance criteria, etc. The supplier is required to perform a final inspection before delivery to the contractor.

When required by a PO or Subcontractor Agreement, an inspection and test plan (ATP) for the control of articles furnished in accordance with this PO will be prepared and specifically written to outline the product flow from receipt of materials through fabrication, assembly, and test operations. The plan defines the inspection points throughout the manufacturing sequence and describes what, where, and when inspections will be implemented to control the product. Upon request, this plan will be available for review by the contractor's quality representative.

Inspection and testing results will be recorded and analyzed using control charts or a similar technique, as appropriate, for the purpose of identifying problem areas and monitoring the effectiveness of the supplier's quality system.

When specified by the PO or contract, statistical process control (SPC) data, in supplier format, is required and should be submitted to the Purchasing Representative for contractor's Quality acceptance.



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#### 15.14 QC-14 FIRST PART INSPECTION

When specified during the quote phase and when subsequently called out on the PO, the supplier will submit a sample first item for dimensional and functional approval prior to making production item(s). The supplier will notify the contractor at

<u>SUPPLIER.QUALITY@YULISTA.COM</u> when the item is ready for approval examination. Such examination may be conducted at the supplier's facilities or at the contractor's receiving inspection area.

#### 15.15 QC-15 FIRST ARTICLE INSPECTION REPORT

First time shipment from a new (BTP) supplier may require FAI preapproval by Yulista quality before the parts/material will be released for shipping to Yulista. If preapproval is required the FAI data pack will be sent to the buyer on the PO.

If a preapproved FAI is not required but an FAI is required then the FAI data pack will accompany the parts/material shipping to Yulista.

A **COMPLETE** First Article Inspection (FAI) Report is required for build-to-print items (BTP) under any of the following conditions:

- When a BTP item is being produced for the contractor for the first time; or
- When a BTP item has not been produced by the supplier within the previous 24 months; or
- When a BTP item has not been built to the current revision, a delta FAI is required;
   or
- When the manufacturing location for a BTP item has changed since a FAI was previously provided; or
- When specified by the PO.

Labels & Decals "ONLY" may use the same AS9102 form for multiple dash numbers on the same drawing. Each dash number will be identified within the FAI.

It is required that the supplier use AS9102 form for the FAI or another pre-approved format that is equivalent to the AS9102 standard. As an aid, the Supplier may use APPENDIX C: AS9102 FIRST ARTICLE INSPECTION CHECKLIST to complete the AS9102 form. A FAI contains complete traceability from the top level to any sublevel parts that the supplier is providing, to include any material certifications and testing reports provided by the contractor. The supplier may request an example of an approved FAI via the Purchasing Representative. Changes to the location of manufacturing, including sub-tier suppliers and outsourced processes, may require a FAI.

#### 15.16 QC-16 SOURCE INSPECTION REQUIRED

A source inspection is an inspection conducted by the contractor's quality representative at the supplier's location. The purpose of a source inspection is to assist the supplier in determining conformance with the PO and the specification requirements. Source inspection neither guarantees final acceptance nor does it relieve the supplier of the responsibility to furnish an acceptable deliverable.



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When source inspection is specified by the PO, the supplier will notify Yulista at <a href="Supplier.Quality@yulista.com">Supplier.Quality@yulista.com</a> to schedule source inspection. Yulista requires a 5-business day notice to ensure the availability of the contractor's quality assurance representative who will be present to perform the inspection. The supplier must fill out and submit form YF-QC-45, Source Inspection Request, to the same email address; this form is available via the Yulista website.

Although source inspection may not be required by the PO, Yulista reserves the right to impose source inspection, at the discretion of the contractor's supplier quality group, when risk mitigation and/or expedience is deemed necessary. In these cases, the same requirements are followed to schedule the source inspection.

#### QC-17 HANDLING, STORAGE, PACKAGING AND DELIVERY

The supplier's packing sheet and invoices are to reflect the same military specification (MIL-SPEC) and supplier's part numbers listed on the PO or subcontractor agreement.

Materials are to be shipped in containers in keeping with good commercial practices to preclude any damage or loss incurred during shipping and storage. Materials in boxes will be shipped in boxes rated for the weight contained. Where the possibility of spoilage exists, items in storage will be date stamped, coded, etc., and used on a first in - first out (FIFO) basis.

Areas used for handling, storage, packaging, inspection, and test of products or services will be clean, safe, and well organized to ensure that they do not adversely affect quality or personnel performance. The transporting of material will be such as to avoid damage to the material and/or installed/completed equipment. Each container should have a consistent number of parts except the final container, which may have a quantity difference. Each container will be identified with the part number, revision, and quantity.

#### **QC-18 PART IDENTIFICATION**

All items supplied to the contractor will be identified with complete nomenclature and part numbers in accordance with MIL-STD-130 - Identification Marking of U.S. Military Property, or as specified. Reference paragraphs 5.3.1 through 5.3.7 of the standards.

#### QC-19 CRITICAL SAFETY ITEMS (CSI) AND LIMITED LIFE

For all critical and limited life items, the date of manufacture or shelf life must be supplied with each limited life item. Limited life items provided to the contractor must have a minimum of 50% of their shelf life remaining upon delivery. The shelf-life requirement may be waived if the product will be used before the shelf-life expiration date has passed.

All records relating to CSIs will be clearly identified and traceable to the date and place of production, including the OEM or OCM. Vendors producing CSIs with CCs must adhere to Quality Engineering Standard One (QE-STD-1). The requirements of AS9017 apply to this requirement. Maintenance and Overhaul efforts are required to be IAW QE-STD-2 and AMCOM Regulation 702-7, which requires for maintenance of accurate and complete Component Removal and Repair/Overhaul (e.g., DA Form 2410, etc.) tracking information on tracked CSIs.



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#### QC-20 DESIGN CONTROL AND TECHNICAL DATA PACKAGES (TDP)

For technical data packages (TDPs) such as drawings, the supplier will establish a process to monitor and review for quality content, errors, and errors per sheet in accordance with requirements specified in Supplier Technical Data Package Requirements. Appendix B contains additional requirements of suppliers providing TDPs.

#### QC-21 FOREIGN OBJECT DAMAGE (FOD)

Material supplied to the contractor will be manufactured in an environment free of foreign objects and will be free of foreign objects upon delivery. The supplier will have provisions for the prevention of foreign object damage (FOD) and have a course of action to implement in the event it does occur. The supplier will ensure personnel are trained and evaluated on knowledge, awareness, and responsibilities associated with FOD control, prevention, and reporting procedures.

#### QC-22 COUNTERFEIT AVOIDANCE PLAN

The supplier will have a documented plan to control, detect, and avoid supplying counterfeit electronic components, ferrous and non-ferrous metals/raw materials, as well as paint, primers and composite materials to the contractor. The supplier will immediately notify the contractor via the Purchasing Representative of any suspect counterfeit or fraudulent parts or material that may have been used in product delivered to the contractor.

#### QC-23 ELECTRONIC COMPONENTS

The contractor will not accept electronic components from suppliers that are under a "Stop Shipment Order" as determined by the Government Industry Data Exchange (GIDEP).

Distributors of electronic components that are authorized by an OCM or OEM will provide full traceability back to the manufacturer, including lot/date code, and include a copy of the component manufacturer's CoC with each delivery. Independent distributors or brokers not authorized by an OCM must also provide traceability back to the manufacturer and include a copy of the OCM's CoC with each delivery. If the manufacturer's CoC cannot be provided, the components must be tested IAW AS6081 Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition or CCAP-101 Counterfeit Components Avoidance Program - Distributors to assure authenticity. The distributor must provide these results before delivery to the contractor via the Purchasing Representative.

When purchasing electronic components for the contractor, the supplier will follow the below order of preference:



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#### **Original Manufacturer**

Original Manufacturer provides C of C and verifies authenticity.



#### **Authorized Distributor**

Full traceability back to original manufacturer will be provided with the material. Supplier will include a copy of the original C of C.



#### **Independent Distributor or Broker**

Components must be tested IAW AS6081/CCAP-101 – unless a Yulista Request for Deviation has been approved

Electrostatic discharge (ESD) protection will comply with ANSI/ESD S20.20, as applicable.

Static sensitive parts will be packed in a conductive frame or with leads inserted in conductive elastomer or foam to protect them against electrical charges. External labels will identify the package on at least two sides as containing static sensitive devices. ESD protection will comply with American National Standards Institute (ANSI) / Electronic Static Discharge (ESD) S20.20, as applicable. Packaging, and marking, must allow for the administration of FIFO inventory control. It is preferred that all suppliers separate and identify lots containing multiple date codes. Product marking will be in accordance with drawing requirements and MIL-STD-130 - Identification Marking of U.S. Military Property. Reference paragraphs 5.3.1 through 5.3.7 of the standard.

Electronic components being procured are exempt from "lead-free" Restriction of Hazardous Substances directive (RoHS) being pursued by commercial entities. Components that have part finishes (Leads, Packaging, or Contents) greater than 95% tin (Sn) will contain at least 3% lead (Pb). All components that require soldering will conform to IPC J-STD-002 requirements for solderability. Components that require tinning will be tested and certified to IPC/EIA J-STD-002 Section 4.3.1 Test "E" Wetting Balance Test (Leaded Components); Section 4.3.2 Test "F" Wetting Balance Test (Leadless Components); and IPC/EIA J-STD-013 Implementation of Ball Grid Array and Other High Density Technology Outlines for Ball Grid Arrays (BGA). When components are available only from "Lead Free" sources the contractor will obtain government approval for each task order/delivery order prior to proceeding. Lead-free risk analysis and mitigation strategies for the design in question may be required prior to approval.

#### QC-24 PRINTED CIRCUIT BOARDS (PCBS)

Raw material deliveries will also be compliant with the Counterfeit Avoidance section of this document.

Base materials of PCBs will comply with IPC-4101, IPC-4104, IPC-4202, IPC-4203 and IPC-4204. Copper foils will comply with IPC-4562.

Qualifications for PWBs will comply with IPC-6011, IPC-6012, IPC-6013, and IPC-6017. Solder mask will comply with IPC-SM-840.

Acceptability of PCBs will comply with IPC-A-600. Repair of PCBs will comply with IPC-7711 and IPC-7721.



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#### QC-25 CIRCUIT CARD ASSEMBLIES (CCAS)

All CCAs will be functionally tested and the test report(s) provided with each shipment. This requirement is mandatory unless a waiver is granted in writing from the contractor. Certification workmanship standards will comply with IPC J-STD-001 Class 3 and IPC-A-610 Class 3. The supplier will default to Class 3 requirements if the class is not otherwise specified on the PO or other Yulista supplied documents.

All electronic grade solder alloys used on CCAs will conform to IPC J-STD-006 and will contain at least 36% lead (Pb) unless otherwise approved via the Yulista Request for Deviation Process. Flux and paste will comply with IPC J-STD-004, and IPC J-STD-005 respectively.

Solderability of CCAs will comply with IPC J-STD-002 and IPC J-STD-003.

Stenciling of CCAs for surface mount components will comply with IPC-7525.

Conformal coating of CCAs will use materials that comply with IPC-CC-830C using IPC-HDBK-830A for guidance in selection and applied IAW IPC-A-610G.

## QC-26 WORKMANSHIP GUIDELINES FOR ELECTRICAL BOX ASSEMBLIES AND WIRING HARNESSES

This section is intended to communicate workmanship guidance to suppliers for assembling and inspecting electrical box build hardware assemblies and wire harness assemblies supplied to the contractor. This includes adherence to contractor TDP requirements as well as all applicable military, aerospace, and other acceptable standards. The intent is to address the general requirements for stress relief, wire breakout and securing, wire routing, required service loops to eliminate the potential for chafing, solder sleeves, and numerous additional aspects of acceptable assembly techniques.

Default workmanship requirements are defined in SAE-AS50881D. For areas not addressed by this guideline, IPC/WHMA-A-620, Class 3 requirements become the rule. IPC/WHMA-1-620 sets standards and practices not only for cable and wire harness assembly, but for inspection as well.

#### QC-27 PAINT, PRIMER AND COATINGS

The contractor will only accept paint, primer, and coatings that are manufactured to military specifications (MIL-SPEC) from qualified product database (QPD) approved manufacturers, as determined by the QPD. The QPD database must be accessed (http://qpldocs.dla.mil) to verify that the correct combination of color/type/class, etc. is approved, and a manufacturer for this combination must be used. The QPD-approved manufacturer must be identified on all quotes and material certifications. The supplier is responsible for passing contractor MIL-SPEC purchase requirements to all sub-suppliers, including the OEM. The CoC for all QPD managed MIL-SPEC items must include the original manufacturer of the product.

Suppliers providing painting and finishing services that include chemical agent resistant coating (CARC) paint and/or coatings will complete testing requirements in accordance with (IAW) MIL-DTL-53072 CARC System Application Procedures and Quality Control Inspection. This requirement will be applied to all drawings that call for CARC painting and/or coating, regardless of the source or owner of the drawing.



representative.

#### SUPPLIER QUALITY SYSTEM REQUIREMENTS

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Paint, primer, and coating deliveries will also be compliant with the Counterfeit Avoidance section of this document and are subject to audit and review by a contractor quality

## QC-28 RAW MATERIAL

All raw material, as well as material to be used for build-to-print or modification projects must be identified per the applicable specification including plates, bars, extrusions, sheets of aluminum, steel, or other material. The material will be marked with material type and PO number in indelible ink.

Raw material deliveries will be accompanied by a material test report (MTR) to provide evidence that the material used meets the requirements of the drawing. MTRs are required and will contain a chemical and physical test report, including actual test results from samples representative of the material shipped under this or any associated PO or Subcontract Agreement.

For raw materials identified as a significant operational risk, additional validation is required. Yulista validates the accuracy of accompanying material test reports via outsourcing to an AVL-approved testing supplier.

Raw material MTRs/deliveries will also be compliant with the Counterfeit Avoidance section of this document.

#### QC-29 HAZARDOUS MATERIAL (HAZMAT)

All material requiring a safety data sheet (SDS) will be in compliance with the Globally Harmonized System for Hazard Communication (GHS) in accordance with The Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 29 CFR 1910.1200 which requires a "downstream flow" of information, addressed as "FAX on Demand" described requirements of the regulation as stated in 1910.1200 paragraphs (g) (6) (i) thru (g) (7) (vii) of the standard.

Suppliers will not use any Class 1 ozone-depleting chemical/ozone-depleting substance (ODC/ODS) identified at the manufacture, or in support of items required by the contractor unless a waiver is obtained from the Government via the contractor's Purchasing Representative (Buyer).

All suppliers support service activities will be in compliance with applicable federal, state, and local environmental laws and regulations.

#### QC-30 WELDING (SECTION DELETED)

#### QC-31 SUPPLIER CORRECTIVE ACTION REQUEST (SCAR)

SCARs are issued to suppliers in order to determine the root cause of defectives received by the contractor. The SCAR response will include root cause investigation, corrective action(s), and long-term corrective action(s) to prevent a recurrence of the root cause. The response must include verification and validation of all corrective actions and supporting documents. SCAR responses are due within 14 calendar days. Extensions may be granted if the circumstances



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warrant an extension. The extension must be requested in writing from the contractor's Supplier Quality Department prior to the SCAR due date and will include justification for the extension request.

#### QC-32 MATERIAL RETURN TO SUPPLIER REQUIREMENTS:

When a Return Material Authorization (RMA) from a supplier is issued by a supplier the following are required:

- Ship to address with contact person (if applicable).
- Method of shipping (FEDEX, UPS account number, etc.)
- A copy of the contractor nonconforming material report (NCR) will be included with the returned material.

#### QC-33 AVIATION ELECTRONICS SYSTEMS EQUIPMENT

Aviation Electronic Systems Equipment/LRUs listed in TB 1-1500-341-01 that contain software are required to submit a DA Form 2410s showing the software version whenever the equipment is gained/lost to the Army inventory, installed on an aircraft, removed from an aircraft, repaired, or the software is upgraded. SCPs should contain an automated DA Form 2410s Program to assist in completing and submitting the DA Form 2410s upon completion of the upgrade process. They also have to be entered on the DA Form 2408–5.

#### **QC-34 SPECIAL PROCESSES**

Special processes defined as any process for production and service provision where the resulting output cannot be verified by subsequent monitoring or measurement and, as a consequence, deficiencies become apparent only after the product is in use or the service has been delivered. See appendix D SQ-100 Special Process Table. This table is not to be considered as a complete list. If there is a question about a process that is not on the list please contact Yulista supplier quality (supplier.quality@yulista.com).

Process certifications are required for all special processes to be submitted to Yulista with the delivered item and will be in accordance with C of C requirements, with the additional requirement of stating the process being certified. If the special process was outsourced, the cert will originate from the contracting company.

Suppliers using sub-suppliers for special processes are required to validate the sub-supplier's special processes ensuring that they meet the following requirements.

- a. Written process defining process controls (Audit of process)
- b. Abjective evidence of how the process is maintained (Yearly audit)
- c. Facilities and equipment to mainitain the process (space, equipment calibrated, or safey inspection)
- d. Process operators properly trained (Training records, personal certifications)
- e. Methods in place for maintaining and monitoring the process (logs or charts with recorded data parameters)
- f. Retention of documents (section 5.8 QC-08 seven (7) years)

Vendors performing special processes for the organization will be appropriately approved for use prior to work being performed, to include subcontracted work.



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#### 6.0 REFERENCED DOCUMENTS

29 CFR 1910.1200	OSHA Hazard Communication Standard					
ANSI						
ANSI American National Standards Institute American Welding Society (AWS) Structural Welding Code						
American welding Societ						
AS5553	Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection,					
	Mitigation, and Disposition					
AS6081	Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection,					
	Mitigation, and Disposition – Distributors					
AS6174	Counterfeit Materiel; Assuring Acquisition of Authentic and					
	Conforming Materiel					
AS9100	Quality Management Systems: Aviation, Space & Defense					
400400	Organizations (5AI) Parant Parantage and					
AS9102	First Article Inspection (FAI) Report Requirements					
AS9110	Aerospace - QMS Requirements for Maintenance Organizations					
AS9120	Quality Management Systems - Aerospace Requirements for					
	Distributors Company (Fig. 1)					
ANSI/ESD S20.20	Electronic Static Discharge S20.20, Protection of Electrical and					
	Electronic Parts, Assemblies and Equipment					
FAR 52.246-2	Contractor Inspection Requirements					
FAR 52.245-1	Government Property					
FAR 52.245-2	Government Property (Fixed Price Contracts)					
FAR.52.245-4	Government Furnished Property (Short Form)					
FAR.52-245-5	Government Property (Cost Reimbursement, Time and Material,					
	or Labor Hour Contracts)					
IPC-A-600	Acceptability of Printed Boards					
IPC/WHMA-A-620	Class 3 Requirements and Acceptance for Cable and Wire					
11 0/11 11 A 020	Harness Assemblies					
IPC J-STD-001	Class 3 Requirements for Soldered Electrical and Electronic					
	Assemblies					
ISO9001	Quality Management System					
IPC J-STD-002	Solderability Tests for Component Leads, Terminations, Lugs,					
0 0 0 1 0 0 0 1	Terminals and Wires					
IPC J-STD-006	Requirements for Electronic Grade Solder Alloys and Fluxed and					
11 0 0-012-000	Non-Fluxed Solid Solders for Electronic Soldering Applications					
MIL-DTL-53072	CARC System Application Procedures and Quality Control					
	Inspection					
MIL-STD-130	Identification Marking of U.S. Military Property					
QPD	Qualified Product Database <a href="http://qpldocs.dla.mil">http://qpldocs.dla.mil</a>					
QE-STD-1	Quality Engineering Standard					
SOP-MFR-07	Yulista Wire Harness Assembly					
YM-PURCoC-01	Yulista Code of Conduct					
Yulista Supplier Technica	Il Data Package Requirements (Appendix B)					

#### 7.0 FORMS & RECORDS

YF-4.4.0-02, Appendix A	Yulista Supplier Deviation Request
YF-QC-45	Source Inspection Request



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#### 8.0 RECORD OF REVISIONS

8.0 RECORD OF REVISIONS						
Date	Revision	Description of Changes				
10/9/2013	IR	Initial release				
6/30/2014 — 10/1/17	1 — 9	Detailed information on revisions prior to three years ago can be found in previous revisions of this document, located in the Master Files of the Yulista QMS/SharePoint Site.				
4/24/18	10	Added link to detailed ethical requirements. Detailed further requirements for FAI. Added requirements for CFM. Added purchasing order requirements for electronic components.				
11/5/18	11	Section QC-19: Added references to AS9017 and QE-STD-2 in QC-19 for Critical Safety Items.				
12/26/18	12	Added cover page. Moved revision page to front of document. Moved page containing referenced documents. Added CSI requirement to QC-08. Added additional verbiage to allow for acceptance of suppliers' COC. Added verbiage to aid clarification. Added CCAP-101 as an alternate to AS6081 and reworded section QC-23. Added sections QC-24, QC-25 (added test requirement) and QC-26. Deleted Appendix C and added a reference to this information in QC-26. Updated table of contents.				
2/27/19	13	Added QC-31 Supplier Corrective Action Request (SCAR) to advise suppliers of the 14-calendar day due date and advice of extension request process.				
3/11/19	14	Added QC-15 update – FAI documentation approval by SQA. Added (QC-23 solderability testing requirements. Added QC-32 Material Return to Supplier Requirements				
6/10/19	15	QC-01, Added text referencing pre-finish prep application. QC-15 Added first piece call out during the quote phase. QC- 28 Added verbiage detailing additional third-party MTR validation requirement. Deleted "The material will be marked with material type and PO number in indelible ink."				
16	04/07/2021	Updated the following sections: 5.6 Updated rating methodology 5.8 Updated record retention requirements 5.11 Added language specific to labels and decals 5.15.1 Removed 5.19 Updated CSI requirements 5.25 Added language regarding conformal coating 5.32 Removed requirement pertaining to shipment of returned items Appendix A reflects revision to YF-4.4.0-02 Appendix B Grammatical edits made				



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17	10/12/2021	Defined applicable clause to supplier type. Also modified 5.11 C of C language 5.15 First Article to address requirements for labels
18	05/10/2022	Added Section 2.4 Revised Section 5.16 Added Appendix C
19	07/12/2022	Added QE-STD-01 to QC-19.
20	09/15/2022	Updated section 5.16 to new requirements for Source Inspection.
21	7/19/2023	Added QC-01 to section 5.0, Clauses applying to all suppliers Updated QC-15, FAI data pack to ship with the hardware Deleted QC-30 Added QC-34, Special Processes Added Appendix D, SQ-100 Special Proceses Table Revised Appendix A, changed submittal from supplier quality to purchasing



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#### **APPENDIX A: SQ-100 SUPPLIER QUALITY DEVATION REQUEST**

<b>♦ ₽</b> VIIII CTA			1					
YULISTA	Form #			6/13/2023				
	1 01111 11	F	4					
				20110	0.0137			
Section 1	COMPANY  Deviation # (to be assigned by Yulista							
YAI YIS	Y-Tech	h 📗	Y-TAC		Other		Supplier Quali	
Section 2			DEVIA	TION	REQUEST			
Work Order #:					Date Subr	nitted:		
PO#:					Buyer:			
Part #:					Delivery (	Order:		
Supplier/ Name & title of Submitter:					!			
and of oublineer.			Require	ment				
Enter below the requi	rement that	cannot be m				, drawi	ngs and/or	specifications:
			son for I					
Provide justification for will be performed refe					cification, et	tc. and	describe h	ow the deviation
will be performed refe	rending prod	edules allu	or galaen	1165.				
Section 3			YULIS	STA A	PPROVAL			
Signature:							Date:	

Please submit completed form to the contractor's Purchasing Representative.

CHECK MASTER LIST TO VERIFY THIS IS THE CORRECT VERSION BEFORE USE
"This document and all of its content are proprietary and confidential. No part of this document may be disclosed in any manner to a third party without the prior written consent of Yulista Holding, LLC or its subsidiaries."

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#### APPENDIX B: SUPPLIER TECHNICAL DATA PACKAGE (TDP) REQUIREMENTS

#### **PURPOSE**

This document is intended to communicate the requirements for TDPs supplied to the contractor by subcontractors and suppliers. This includes adherence to the contractor's TDP requirements, as well as all applicable military, aerospace and other acceptable standards. In addition, this document details requirements for supplier review of all drawings and technical documents delivered to the contractor. For the purposes of this document, suppliers and subcontractors will be collectively referred to as "suppliers."

#### **ACRONYMS**

IAW	In Accordance With
PO	Purchase Order
SOW	Statement of Work
TDP	Technical Data Package

# B.01 ADHERENCE TO APPLICABLE MILITARY, AEROSPACE, AND ACCEPTABLE STANDARDS

Unless otherwise specified in the Statement of Work (SOW), all technical data must meet the requirements of MIL-STD-31000A Technical Data Packages (TDP). This standard provides requirements for the deliverable data products associated with a TDP and its related TDP data management products. Elements of the TDP include models, drawings, associated lists, specifications, standards, quality assurance provisions, software documentation, packaging details and all other technical documents.

Unless otherwise specified in the SOW, all technical data must also meet the requirements of ASME-Y14.100 Engineering Drawing Practices, including appendices and associated documents. This standard establishes the essential requirements and reference documents applicable to the preparation and revision of engineering drawings and associated lists. This standard is to be used in conjunction with ASME-Y14.24 Types and Applications of Engineering Drawings, ASME-Y14.34 Associated Lists, and ASME-Y14.35 Revision of Engineering Drawings and Associated Documents.

Additional standards may be required and referenced in the SOW, purchase order (PO) or in a TDP Option Selection Worksheet provided by contractor's engineering representative. Airworthiness certification may invoke special requirements specified by the contractor's customer, and these requirements will also be flowed down to the supplier via the SOW. In the event that any requirements/standards contradict one another, the supplier will contact the contractor for clarification before proceeding.

#### **B.02 REQUIRED SUPPLIER PROCESSES**

The supplier will establish a drawing review process to ensure they meet all contractor requirements, as well as any military, aerospace, or other standards in accordance with (IAW) the SOW and the agreed upon schedule, to include the following:

Technical review to ensure that drawings meet applicable drafting standards.



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- Technical document review to ensure that documents provided to the contractor contain adequate details to fulfill their intended purpose (e.g. weight and balance reports, electrical load analysis, structural analyses, or any other document defined in the SOW).
- Internal peer review performed by an engineer other than the engineer who created the drawing.
- Process for review of drawings and/or models to identify potential manufacturability issues, as specified by the SOW.

The supplier's process will include handling of design changes, including both internal management of the changes as well as communication with the contractor when a design change affects product features and/or performance. Suppliers will evaluate and collect error checking data in order to identify trends, to correct issues and to reduce errors. Upon notice, all supplier processes are subject to audit by the contractor.

#### **B.03 CONTRACTOR ENGINEERING REVIEW**

After an engineering review by the contractor, feedback will be provided to the supplier in order to correct any issues. Once corrected, the supplier will resubmit to the contractor for approval. Contractor engineering reviews include the following:

- Early technical drawing review, to identify global errors at the beginning of the project
- Technical drawing review, to monitor adherence to requirements stated in section B 01
- Technical document review to include reports and analysis
- Manufacturability review to identify potential manufacturing issues

#### **B.04 CONTRACTOR EVALUATION OF SUPPLIER PERFORMANCE**

The contractor's supplier quality representative will monitor and evaluate supplier performance based upon on-time delivery and quality measurements. Suppliers are expected to provide TDPs to the contractor with no more than 0.5 errors per sheet If errors are found to exceed 0.5 errors per sheet during a technical review, the supplier may be subject to corrective action. Checklists used by the contractor for error checking will be flowed to the supplier via a SOW.

#### REFERENCED DOCUMENTS

<b>ASME Y14.100</b>	Engineering Drawing Practices
<b>ASME Y14.24</b>	Types and Applications of Engineering Drawings
<b>ASME Y14.34</b>	Associated Lists
<b>ASME Y14.35</b>	Revision of Engineering Drawings and Associated Documents
MIL-STD-31000A	Technical Data Package



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#### APPENDIX C: AS9102 FIRST ARTICLE INSPECTION CHECKLIST

FORM 1(PART NUMBER ACCOUNTABILITY) of the AS9102 is complete. 1. Part Number is correct. □ 2. Part Name is correct. □ 3. Serial Number, if applicable, is correct.  $\square$ 4. FAIR Number. (Reference number that identifies the First Article Inspection Report (FAIR); this may be an internal report number.)  $\square$ 5. Part Revision Level is correct. □ 6. Drawing number is correct. □ 7. Drawing revision is correct. □ 8. Additional Changes, if applicable, are correct.  $\square$ 9. Manufacturing process is correct. (Reference number that provides traceability to the manufacturing record of the FAI part (e.g., router number, manufacturing plan number). Additional information such as lot number, batch number, date code, or line number may be included, as needed, to provide traceability to the specific manufacturing lot.) □ 10. Organization Name is correct. □ 11. Supplier Code, if applicable, is correct. □ 12. P.O. Number is correct. □ 13. Mark as Detail Part or Assembly FAI. □ 14. Mark as Full FAI or Partial FAI. For a partial FAI, provide the previous part number, including revision level to which this partial FAI is performed and the reason for the current FAI.  $\Box$ Index of part numbers are correct. (Data Fields 15, 16, 17, and 18: This section is required only if the part number identified in field 1 is an assembly requiring lower-level parts (i.e., detail parts) to be installed).  $\square$ 15. Part Number matches what is on drawing.  $\square$ 

16. Part Name matches what is on drawing.  $\square$ 

17. Serial Numbers, if applicable, are correct.  $\square$ 



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18. A FAIR Number or PO is provided for traceability.  $\Box$ 

19. Signature and Date are present. (Printed name or unique identification, and signature of the person approving the FAIR. This signature certifies the evaluation activities in 9102 are complete and the FAIR is approved. NOTE: Electronic identification or signature are both acceptable.) Check "FAI Complete", if all characteristics are conforming. □ FORM 2 (PRODUCT ACCOUNTABILITY - MATERIALS, SPECIAL PROCESSES, AND FUNCTIONAL TESTING) of the AS9102 is complete. NOTE: Data fields 1 thru 4 are repeated on all forms for traceability and must match throughout the FAIR. 1. Part Number is correct. □ 2. Part Name is correct. □ 3. Serial Number, if applicable, is correct.  $\square$ 4. FAIR Number. (Reference number that identifies the First Article Inspection Report (FAIR); this may be an internal report number.)  $\square$ Data fields 5 thru 9 are correct. □ NOTE: All Materials, Processes, Specification Numbers, Test procedures, etc. (if applicable) match what is on the drawing. 10. Certificate of Conformance number is correct. A certificate of conformance number, heat number, PO number, or any number that provides traceability to the specified material or process must be present.  $\square$ 

11. Functional Test Procedure Number, if applicable, is correct. □

12. Acceptance Report Number, if applicable, is correct.  $\square$ 

Signature and Date are present. □

Bubbled/Ballooned Drawing is complete and included.

Drawing must be aligned with Form 3 of AS9102.

Drawing must be legible.

FORM 3 – (CHARACTERISTIC ACCOUNTABILITY, VERIFICATION, AND COMPATIBILITY EVALUATION) of the AS9102 is complete.

NOTE: Data fields 1 thru 4 are repeated on all forms for traceability and must match throughout



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#### the FAIR.

Data fiel	ds (	5 thru	8 must match bubbled o	Irawing.			
	5. Characteristic Number is correct and correspond to the bubbled draw assigned number for each design characteristic). $\Box$						
	6.	Reference Location is correct. (Location of the design characteristic (e.g., drawing zone (page number and section))). $\Box$					
	7.	Characteristic Designator is correct. (If applicable, record characteristic type) $\Box$					
	8.	Requirements are correct and match drawing. (Specified requirement for the design characteristic (e.g., drawing dimensional characteristic with associated nomin dimension and tolerances, drawing notes, specification requirements). $\Box$					
9. Results are correct and comply with Requirements. $\Box$							
	<ol> <li>Designed / Qualified Tooling is correct and present. (Tooling ID must be noted to anything that requires use of a tool for characteristic results). □</li> </ol>						
	11. Nonconformance Number, if applicable, is correct. $\Box$						
Signatur	e a	nd Da	te are present. $\Box$				
FAI Rep	ort <sub>i</sub>	oacka	ge must be legible, free	of typos and include the following:			
		1.	Forms 1, 2 and 3 of the	AS9102. □			
		2.	Bubbled/Ballooned Dra	wing. $\square$			
3.			Certificate of Conforma	nce as required in SQ-100 5.11 QC-1	!1. <i>□</i>		
		4.	All documentation (c of traceable to the FAI rep	f C's, MTR's, Test Results, etc.) relating to port. $\Box$	and completely		
		5.	Top level part number report. $\Box$	FAI report and all sub-assembly pa	art numbers FAI		
Complet	ed i	by:					
			Print Name	Signature	Date		



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## **APPENDIX D: SQ-100 SPECIAL PROCESS TABLE**

Special Process (SP) Description	Process Types	
Chemical Processing	Anodize, Electroplating, Electroless Plating, Conversion Coating, Stripping of Chemical Processing	
Coatings	Paint, Thermal Spray, Vapor Deposited Coatings, Diffusion Coatings, Heat Treat of Coatings	
Composites Manufacturing	Carbon Fiber, Fiberglass, Weaving, Open/Closed Moulding, Cast Polymer, Cloth Resin	
Electronics	CCA Assembly Manufacturing, Soldering of Printed Board Assemblies, Encapsulation, IPC-A-610 Class 3 Workmanship Standards (Internal Only), Potting.	
Heat Treating	Heat Treating	
Metallic Materials Manufacturing	Forging, Casting	
Non-Destructive Testing	Dye Pen, UT, ET, X-Ray, Mag Particle.	
Additive Manufacturing	3D Printing	
Surface Enhancement	Shot Peening, Flapper, Peen Forming, Glass Bead Peening, Manual.	
Welding	Brazing, Flash Weld, Electron Beam, Resistance/Friction Stir, MIG, TIG, ARC.	