



Classification: Standard Form	Form Number: SFL-282
Subject: Supplier Quality Assurance Requirements	Revision: C
Responsibility: Quality	Release Date: 12/1/2020

SUPPLIER QUALITY ASSURANCE REQUIREMENTS

Detailed Provisions: The following requirements are a part of the purchase document as applicable.

GENERAL INSPECTION REQUIREMENTS

A1 Government Source Inspection. Government Source Inspection is required prior to shipment from Seller's facility. Upon receipt of this order promptly notify the Government Representative who normally services your facility, so that appropriate planning for Government Inspection can be accomplished. Evidence of performed source inspection is required with each delivery to Sonatech.

A2 Sonatech Source Inspection/test. Final Source Inspection / Test is required prior to shipment from Seller's facility. Notify Sonatech Purchasing Agent listed on the Purchase Order five (5) days in advance of date when material is ready for Sonatech surveillance. Inspection at the supplier's facility by Sonatech does not guarantee final acceptance. Final Acceptance shall be at Sonatech unless otherwise specified on the purchase order.

A3 Sonatech Source Inspection/Test. In-process Source Inspection / Test is required. Upon receipt of this order notify the Sonatech purchasing agent listed on the purchase order so appropriate inspection can be coordinated.

A4 Access for Facility Audit and Surveillance. During performance on this order, the Supplier's Quality Control system and manufacturing processes are subject to review and/or surveillance by authorized representatives from Sonatech and/or our customer's organization.

A5 Government Review of Performance. During performance on this order the Seller's Quality Control system and manufacturing processes are subject to review, verification and analysis by authorized Government Representatives. Government inspection or release of product prior to shipment is not required unless otherwise notified. The Seller shall provide a copy of this order to your Government Representative upon their request.

A6 First Article Approval. Approval / Acceptance of first article by Sonatech is required prior to delivery of additional production quantities. Commencement of production quantity prior to first article acceptance is at Seller's risk.

A7 Process/Inspection Control Plan. The supplier shall submit to Sonatech purchasing a processing, test and/or inspection flow plan. Suppliers plan shall be approved by Sonatech prior to start of production.

QUALITY SYSTEM REQUIREMENTS

NOTE: During the execution of this order, the supplier shall demonstrate compliance with the following:

B1 The supplier shall comply with the provisions of ISO9001:2015, revision in effect on date of purchase order.

B2 The supplier shall comply with the provisions of MIL-I-45208A (or equivalent.)

B3 No formal Quality system required. (Consumable material and low cost commercial catalog purchases.)

B4 The supplier shall demonstrate objective evidence that applicable inspections and tests have been performed which verify product compliance to drawings and/or specifications.

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CALIBRATION SYSTEM REQUIREMENT

C1 The supplier shall maintain a system of adequate calibration of all measuring and test equipment IAW the requirements of MIL- STD-45662A Calibration System Requirements, ISO17025, ANSI Z540, (or equivalent.)

QUALITY AND WORKMANSHIP REQUIREMENTS

D1 Quality and Workmanship to comply with Standard Commercial Practices.

D2 Soldering and Workmanship to meet the inspection acceptability required in IPC-A-610, Class 3 (or equivalent), revision in effect on date of purchase order.

D3 PWB Quality and workmanship standards to IPC-6012, revision in effect on date of Purchase Order. Coupon and micro section test specimens are not required unless specifically stated on the Purchase Order.

ELECTROSTATIC DISCHARGE SENSITIVE PARTS (ESD) REQUIREMENTS

E1 Supplier shall have an ESD control program in effect to protect such devices during manufacturing, test/inspection/packaging, transportation, shipping, rework/repair and failure analysis. ESD parts/ assemblies shall be identified with the appropriate MIL-STD-129 caution label. "CAUTION-OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE ITEMS". (Ref. ANSI/ESD-S20.20-2007 for guidelines)

NON-CONFORMING MATERIAL REQUIREMENTS

F1 Non-Conforming Material. Sonatech has Material Review Board (MRB) Authority. Seller must segregate and notify Sonatech purchasing agent of any nonconforming material and submit a Non-Conforming Report (NCR.) Seller must receive an NCR response and approval to ship, from the Sonatech Quality Assurance Department prior to delivery of any discrepant material.

F2 Resubmission of Non-Conforming Material. All items rejected by Sonatech and subsequently resubmitted by the supplier shall bear an adequate indication of such resubmission upon re-delivery including a copy of or reference to the Sonatech approved NCR.

PRODUCT DESIGN CHANGE REQUIREMENTS

G1 Form, Fit or Function Changes to End Item. Sonatech must be notified for approval of any proposed design changes to Sonatech or Subcontractor design documentation, including source control drawings, that will affect form, fit or function of the end item.

G2 All Changes. Sonatech must be notified for approval of any proposed design changes to Sonatech or Sonatech qualified subcontractor/supplier design documentation, including source control drawings, that affect the design, parts, materials used, fabrication processes or methods for the end item.



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CERTIFICATION REQUIREMENTS

NOTE: The certifications indicated below must be received with each shipment. Parts received without the correct certifications will be held in Incoming Inspection for one (1) week after which time they will be returned to the supplier. The certification(s) must contain the purchase order number, part number and revision level, serial numbers (if applicable), lot number (if applicable), date of manufacture and quantity shipped, and must be signed and dated by an authorized agent of the supplier.

H1 Certificate of Conformance. A Certificate of Conformance shall be submitted with each delivery. This certificate shall certify that all terms of the Purchase Order are in compliance, and that the product meets all drawings and specifications referenced on the Purchase Order. Certification shall include PO part number, Revision, supplier part number and Lot No., Date Code, Batch number, SN as applicable. Certifications shall be signed/dated by the seller’s authorized agent.

H2 Raw Materials Certification. A certificate of materials acceptance including all applicable test results shall be submitted. Purchased raw materials, which are required to satisfy documented specifications, shall be accompanied by a detailed analysis report. Unauthorized material substitutions are not permitted.

H3 Certification of Materials Used in Purchased Articles. A copy of all certificates of material acceptability including applicable test results on raw materials that are required to satisfy specification requirements employed in the manufacture of articles purchased on this contract/purchase order shall be furnished by the supplier.

H4 Shelf Life/Cure Date Certification. The Seller shall submit a certification of materials or articles determined to have characteristics susceptible to quality degradation with age and/or storage environment. The remaining useful life must be a minimum of three-fourths of the specified shelf life. **NOTE - ADDITIONAL CERT REQUIREMENT FOR O-RINGS MUST INCLUDE THE FOLLOWING: 1) Full O-Ring part number 2) Lot or Batch Number 3) Cure Date**

H5 Certification of Parts to Government Specifications. The supplier shall include a certification of parts to the applicable military specifications. Where parts supplied are procured from the qualified products list (QPL), the supplier shall include the name of the manufacturing source and qualification number as listed on the QPL or a copy of the manufacturer's certification.

H6 Special Process Certification. Seller must submit a statement attesting that processes such as welding, X-ray, magnetic particle inspection, heat treating, anodizing, plating, etc., satisfy the requirements of applicable specifications (including, where applicable, certification of process personnel). The certification must include the specification and revision which define the process used.

H7 Test / Inspection Report. Seller must submit a detailed data report documenting all tests and inspections results, specified on supplied documentation. Inspection report must be signed and dated by the Seller’s authorized agent. Test / Inspection reports must contain serial numbers traceable to the test / inspection data, as applicable.

H8 Manufacturer's Material Safety Data Sheet. Seller must submit a Material Safety Data Sheet upon delivery.

H9 Certificate of Calibration. The Seller shall submit a certificate of calibration upon delivery. The certification shall attest to the fact that the measurement/test standards used are traceable to the National Institute of Standards and Technology per one of the following standards; MIL-STD-45662, ISO 17025, ISO10012 or ANSI Z540. The Seller shall notify Sonatech prior to proceeding with adjustments or repairs in which an “Out of Tolerance” condition is encountered.

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H10 Specialty Metals Certificate. The Seller shall submit a certificate certifying that specialty metals are in compliance with DFARS Clause 252.225-7009.

H11 First Article Test and Inspection Report. Seller must submit a detailed report (conforming to AS9102, latest revision) attesting that all first article tests and inspections, specified on supplied documentation, have been performed. First Article Test / Inspection report must be signed and dated by the Seller's authorized agent and/or Customer. Test / Inspection reports must contain serial numbers traceable to the test / inspection data, as applicable.

H12 Mercury Contamination Prohibited. Functional mercury and mercury contamination prohibited notwithstanding any other provisions of this order or specifications referenced herein, material furnished by seller under this order shall not contain functional mercury unless specific written approval has been obtained from the buyer. By delivering item to Sonatech, supplier shall be deemed to have certified to Sonatech that such items are free from any functional mercury.

H13 OEM/OCM Certification of Conformance (Counterfeit Mitigation). All Suppliers and their sub-tiers must submit with each shipment the Original Equipment Manufacturers (OEM) or Original Component Manufacture (OCM) Certificate of Conformance for all parts and materials delivered. Certification shall include: Manufacturer name, address, PO part number, revision and traceability number (i.e. date code, serial number, lot number, batch number.)

H14 OEM/OCM Certification of Conformance/Analysis to Customer PN (Counterfeit Mitigation). Submit with each shipment the Original Equipment Manufacturers (OEM) or Original Component Manufacture (OCM) Certificate of Conformance/Analysis to customer PO Part Number/Specification for materials delivered. Certification shall include: Test/Inspection limits and actual values if applicable, manufacturer name, address, PO part number, revision and traceability number (i.e. date code, serial number, lot number, batch number.)

H15 Foreign Object Debris / Damage (FOD). Supplier shall review the design and manufacturing processes to identify and eliminate foreign object entrapment areas and paths through which foreign objects can migrate. Supplier shall employ appropriate housekeeping practices to ensure timely removal of residue/debris, if any, generated during manufacturing operations or tasks. Supplier shall determine if sensitive areas that may have a high probability for introduction of foreign objects should have special emphasis controls in place appropriate for the manufacturing environment. By delivering items to Sonatech, Supplier shall be deemed to have certified to Sonatech that such items are free from any foreign material that could result in Foreign Object Damage.

IDENTIFICATION AND PACKAGING

I1 Serial Numbers. The items referenced on this purchase order shall be individually serialized and traceable to supplied acceptance test/inspection data.

TOOLING, FIXTURE, CASTING, AND MOLD REQUIREMENTS

J1 Multi-Cavity Molds. If items purchased on this PO are produced from a multi-cavity mold, cavities are to be individually identified, thus producing that specific cavity identification mark on the individual item produced from that specific cavity. If the referenced item drawing(s) or the PO specifications do not call out an identification location on the item, please contact the responsible Sonatech Purchasing Agent for assistance.

J2 Mold/Cavity Maintenance & Repair. Mold/Cavity maintenance and repair to product acceptable items is the responsibility of the Seller. Sonatech is to be notified prior to any Mold/Cavity modification.

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