

MOOG

SUPPLIER QUALITY REQUIREMENTS (SQR-1)

Issue: 8 Dec 2010

1.0 PURPOSE

This document defines restrictions and quality system requirements applicable when goods and services are procured to Moog part numbers or Military, Federal or Industry specifications or standards.

2.0 ORDER OF PRECEDENCE

The order of precedence for Moog purchases is defined in Moog Standard Terms and Conditions on the purchase order.

3.0 PROCESS RESTRICTIONS

Unless otherwise directed by the purchase order, the following process restrictions apply:

- **Glass Beads** are prohibited from use in the processing or manufacturing of Moog design authority parts, components or assemblies unless allowed by specific note on the Moog drawing. Requests for exceptions shall be submitted in writing to the Moog buyer for each specific part number.
- **Elastomeric Compounds** shall have 50% or greater shelf life remaining upon receipt at Moog based on SAE ARP 5316. The supplier shall identify manufacturers name, the compound trade name, batch number, cure date, and specific gravity range for each lot.
- **Electronic Components** (i.e. transistors, integrated circuits, connectors, etc.) ordered to military specifications, the component manufacturer and lot / date code for each component must be identified on the packing list.
- **Electrical Discharge Machining** (EDM) is not permitted for manufacture of Moog design authority parts unless allowed by specific note on the Moog drawing. Requests for exceptions shall be submitted in writing to the Moog buyer for each specific part number.
- **Electrostatic Discharge Protection** - Devices designated by the drawing as static sensitive, or otherwise applying static sensitive technology, must be properly handled, packaged, and labeled in conformance with BS EN 100015-1 or MIL-STD-1686.

4.0 QUALITY REQUIREMENTS

Unless otherwise directed by the purchase order, the following quality system requirements apply:

- **Quality System Requirements** - When AS9100 or ISO9001 are Moog contractual requirements, the supplier is responsible to notify the Moog buyer within 5 working days of any changes in Quality System status, including extensions or reductions in scopes of approval, third party and/or regulatory Quality Approvals that are either gained or withdrawn.
- **Record Retention** - Suppliers shall retain verifiable objective evidence of build, inspection & test records, special process certifications, raw material certifications and certificates of conformance for a minimum of ten (10) years from date of shipment, unless a longer period is otherwise specified. The data shall be made available to Moog upon request.
- **Calibration System** - Calibration of measuring and test equipment used for product acceptance shall be traceable to established international or national measurement standards (e.g., BSI, NIST). Procedures for periodic calibration, certification and maintenance of tools and equipment shall be established and followed.
- **Inspection System** - Suppliers shall develop inspection procedures and maintain records of inspection. Records shall include evidence of inspection for all attributes (i.e. first article inspection) of products / processes supplied to Moog. The inspection system shall evaluate products/processes to insure that only hardware/services that conform to purchase order requirements are delivered to Moog.
- **Travelers** - Suppliers shall maintain a traveler or equivalent control mechanism that directs procedures appropriate for the control of quality and configuration through all stages of production.
- **Nonconforming Product** - Suppliers shall develop procedures that assure product that does not conform to specified requirements is not shipped to Moog. Dispositions of *Use As Is* or *Repair* for products under Moog design control shall require written authorization prior to shipment. Suppliers are also required to notify the Moog Buyer within 24 hours of discovering any nonconformance that could potentially affect hardware that has previously been shipped to Moog.
- **Supplier Request for Information/Disposition (SRID)** - Suppliers shall use the [SRID](#) to request review of nonconforming material, change to drawings or specifications, or clarification of requirements. The SRID is accessible for use from the Moog web site; copies are available from the Moog buyer.
- **Statistical Techniques** - Suppliers are responsible for understanding and reducing variation within processes, and are encouraged to use control-charting techniques. When control charting is not performed, sample inspection of all attributes shall be performed to ANSI/ASQ Z1.4 (MIL-STD-105), Level II 1.0 AQL, c = 0.
- **Special Processes** - Moog approved special process suppliers (listed on the [Moog web site](#)) shall be used on all Moog design authority hardware, unless otherwise directed by a Moog supplemental quality requirement. The use of a Moog approved supplier does not relieve the supplier from responsibility to furnish acceptable supplies.
- **Supplier Control** - Suppliers, including dealers and distributors, are responsible for insuring that the applicable requirements of this purchase order are imposed on lower tier procurements for raw material, components or process services being used in the manufacture of products or services being provided.
- **Prohibited Sources** - Moog suppliers and/or sub-tier suppliers are prohibited from using any source listed on the US government Excluded Parties List System (EPLS) (ref. <https://www.epls.gov/>) in the production of products to be delivered to Moog.
- **Certificate of Compliance** - The Certificate of Compliance is a quality record that shall include Moog part number and drawing revision, Military, Federal, or Industry specification number, purchase order number, quantity, date shipped, and manufacturer's name and authorized representative signature. The supplier shall be able to furnish information on their source of supply that could include items such as serial numbers, lot numbers, heat numbers, batch, date code and cure date. Unless directed by Moog drawing, material or process specification, or Supplemental Quality clause, the data shall be retained on file and made available to Moog upon request.

MOOG

SUPPLIER QUALITY REQUIREMENTS (SQR-1)

Issue: 8 Dec 2010

- **Right of Entry** - Moog, Moog's customer and relevant regulatory authorities will have access to supplier's, and all other facilities involved in the order, where they will have access to all procedures, practices, processes, associated documents and records related to quality assurance, quality control and configuration control. Moog reserves the right to determine and verify quality of work, records and material. The supplier shall notify Moog of any change in the location of supplier's facility.
- **Responsibility for Conformance** - Acceptance of product shall not be used as evidence of effective control of quality by the supplier, and shall not absolve the supplier of responsibility for acceptable products or preclude subsequent rejection by Moog customers.
- **Industry Specifications and Standards** - For all Military, Federal, and Industry specifications and standards, the supplier shall comply with the revision in affect at the time the Moog purchase order is issued. Moog reserves the right to request a different revision that would be specified on the purchase order.