

SUPPLIER QUALITY REQUIREMENTS (SQR-1)

Effective: Jan 1st, 2020

This document defines restrictions and quality system requirements applicable when goods and services are procured to Moog Space and Defense Group design authority Build-to-Print and Build-to-Specification part numbers. Moog Aircraft and Industrial Group requirements are defined separately.

These requirements do not apply to Standard Catalog Hardware; often referred to as Commercial-Off-The-Shelf ("COTS"). Standard Catalog Hardware is defined as a part or material that conforms to an established industry or national authority published specification, having all characteristics identified by text description, National/Military Standard Drawing, or catalog item.

The order of precedence for Moog purchases is defined in Moog Standard Terms and Conditions on the Purchase Order. Note that the purchase order cannot change design data.

Unless otherwise directed by the Purchase Order, the following restrictions apply:

3.1 are prohibited from use in the processing or manufacturing of parts related to all Moog Purchase Orders unless allowed by specific note on the Moog drawing. Requests for exceptions shall be submitted to the Moog Buyer listed on the Purchase Order for each specific part number. Suppliers that use glass beads in their normal processing are required to have an effective method of segregation to prevent contamination of Moog hardware.

3.2 such as adhesives, compounds and elastomers, shall have 75% or greater storage life remaining upon receipt at Moog. In particular, elastomers shelf life shall be based on SAE ARP5316 (available at www.sae.org). The supplier shall identify on the shipped paperwork the manufacturers name, compound trade name, batch number, cure date, specific gravity range and QPL approval status, as applicable, by Moog print for each lot.

3.3 (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 shipping paperwork.

3.4 (EDM) is not permitted for manufacture of parts related to all Moog purchase orders unless allowed by specific note on the Moog drawing, or via an explicit written authorization subsequent to a formal approval by Moog Engineering. Requests for exceptions or waiver of this requirement shall be submitted to the Moog Buyer listed on the Purchase Order for Moog Engineering approval for each specific part number. Note: Aircraft Group suppliers are required to submit an SN-type NC.

3.5 - Devices designated by the drawing as static sensitive, or otherwise applying static sensitive technology, must be properly handled, packaged, and labeled in conformance with ANSI /ESD S20.20 (www.ansi.org), BS EN 100015-1 (www.bsigroup.com) or MIL-STD- 1686 (<http://quicksearch.dla.mil>).

Unless otherwise directed by the Purchase Order, the following quality system requirements apply:

4.1 - Suppliers must maintain a quality system that, at a minimum, complies with ISO9001 (latest revision at time of Purchase Order). When supplier compliance and/or certification to AS9100, ISO9001, AS9110, EASA Part 21, EASA Part 145, or FAA 14 CFR part 145 is specified by Moog, the supplier is responsible to notify the Moog Buyer in writing 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. The supplier's loss of certification or failure to notify Moog of their loss of certification could result in being disapproved as a Moog supplier.

4.2 - Suppliers shall retain quality records for minimum of (10) years from the date of shipment, unless a longer period is otherwise specified. If original records are not maintained, the method for transferring original records to electronic images, shall comply with FAR 21, subpart 4.7. Quality records include the following but not exhaustive list: Approved Certificates of Conformity, Test Reports, Raw Material Certifications, Special Process Certifications, First Article Inspection Reports (FAIR), Route Cards/Travelers, and Calibration Records. This data shall be made available to Moog upon request, at no extra charge. Records shall be appropriately identified in accordance with customer, regulatory and company defined requirements. Storage facilities shall provide environmental conditions to prevent deterioration or damage and to prevent loss. Records in storage shall be protected from unauthorized access. The nature of the information in the records, as well as its format, dictates the method by which they shall be destroyed. When records contain sensitive information (such as design detail, proprietary info, ITAR restricted info, etc.), they shall be disposed by irreversible destruction methods such as shredding, or "erasure" /reformatting for electronic/magnetic media.

4.3 - Calibration of measuring and test equipment used for product acceptance shall be traceable to established international or national measurement standards (e.g., BSI, NIST, UKAS, etc.). Procedures for periodic calibration, certification, maintenance of tools and equipment, and an action plan, should measuring and/or test equipment be found to be out of calibration, shall be established and followed. The action plan shall contain, as a minimum, item identification (model, manufacturer, and serial number), found condition (including span/range and accuracy), date condition found, date of previous calibration, notification details, and any other pertinent measurement details.



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4.4 - Suppliers shall develop inspection procedures and maintain records of inspection. Records *shall* include evidence of inspection for all attributes (e.g. first article inspection, acceptance test data) of products / processes supplied to Moog, show the product has been inspected and/or tested during all stages of manufacturing, identify the name of the individual (i.e. with stamps, etc.) who certified the results, and where applicable include the results of the inspections and tests.

The Moog buyer must be notified in writing prior to any changes in product, manufacturing location, or process definition that were not requested by Moog, in writing. Notification shall describe the change or changes that are being proposed. Moog Quality reserves the right to require its approval of the product, manufacturing location or the process change before the Supplier forwards the product. The supplier is also required to submit a new full or delta first article inspection report, if the change(s) affect any of the existing approved first article inspection report characteristics.

4.5 - Suppliers shall maintain a traveler, router, process flow sheet, or equivalent control mechanism that directs procedures appropriate

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Issue	Description
10 Aug 2016	Added Appendix A for AG orders.
1 Oct 2016	Various changes to Appendix A.
1 Feb 2018	Various changes. Amendments: <ul style="list-style-type: none">• Added clause 4.21 regarding product/service conformity, contributions to product safety and ethical behavior. Also wording adjustments to clause A2.0 to reflect same.• Updated A5.0 to remove SQR-1 as a first article verification requirement.
1 Mar 2018	<ul style="list-style-type: none">• Updated A8.0 hyperlink to MRQ52620 workmanship standards for machined parts.