

# Supplier Quality Clauses

## Part 1: General Quality Requirements

Requirement Name	Requirement
<b>Quality Management System</b>	The supplier shall maintain a quality system meeting the requirements of ISO 9001 or AS9100. Third-party registration by an accredited registrar is preferred. Suppliers declaring compliance with no formal accredited registration may require review. For suppliers not meeting these specifications, POC will review and determine if system implemented is sufficient based upon the nature and levels of control required by the parts, materials, or services being procured.
<b>Design, Process, or Material Changes</b>	The supplier shall not implement any changes to POC drawings and/or specifications and/or materials without written approval from POC in the form of a POC-approved Request for Deviation/Waiver (POC form F-021, see below).
<b>Submission of Nonconforming Material to POC</b>	Items not in conformance with the requirements of the Purchase Order, POC drawings, specifications, and industry standards referenced therein, or that cannot be corrected through continuation of the original manufacturing process or by rework, shall not be submitted without prior written approval from POC in the form of an approved Request for Deviation/Waiver (form F-021, see below).
<b>Deviation / Waiver</b>	Should the supplier not be able to meet the requirements of the PO, supplier may prepare and submit a Request for Deviation/Waiver (form F-021), available from POC Purchasing or Quality Assurance, or downloaded from <a href="http://www.POC.com">www.POC.com</a> Supplier Portal. Submittals shall include supplier-recommended disposition(s) with sufficient technical, quality, and reliability justification.
<b>Resubmission of Material</b>	Nonconforming items returned from POC which are subsequently resubmitted by the supplier shall include indication of resubmission on the accompanying paperwork and shipping documents. Reference shall be made to the POC rejection documentation and evidence presented to demonstrate that the causes for rejection have been corrected.
<b>Notification of Previous Delivery of Defective Material</b>	In the event the supplier / special processor determines that material previously delivered to POC was defective, written notification to the POC Purchasing representative is required within thirty (30) calendar days.
<b>First Article Inspection</b>	POC may perform First Article inspection per SAE AS9102 under the following conditions: 1) new supplier; 2) new part number; 3) revision change; 4) same manufacturer but lapse between production runs; 5) verification of implementation of corrective & preventive actions; 6) new facility; or 7) change of ownership.
<b>Corrective Action</b>	When requested by POC, the supplier shall investigate nonconformities to determine the root cause(s) of failures, and take effective action(s) as appropriate to correct the items and prevent future failures. Unless otherwise requested by POC, such corrective action(s) may be documented in the supplier's format. Suppliers CAR system shall be a closed-loop system.
<b>Calibration</b>	The supplier shall only utilize inspection and test equipment for acceptance that has been calibrated to the requirements of ANSI/NCSL Z540.1-1994 or other recognized standards.
<b>Preservation &amp; Packaging</b>	Unless otherwise specified, the supplier shall use best commercial practices for preservation and packaging of items supplied to POC.
<b>Flow Down of Requirements</b>	The supplier shall insure that requirements be flowed down to sub-tier suppliers, including key characteristics, materials selection, first article inspection, process control where required.
<b>Traceability</b>	The supplier shall maintain traceability to the raw material level, and shall be able to provide such traceability within a reasonable time frame if requested by POC.
<b>Shelf-Life</b>	Materials utilized on this order shall be within the applicable shelf-life dates. Expired materials shall not be used.
<b>Record Retention</b>	Suppliers and special processors, as well their subcontractors, shall maintain records to substantiate product compliance to the POC purchase order requirements and must be capable of furnishing copies of these records upon request of POC, POC customers, and government / regulatory representatives as applicable. Such records shall be maintained for a minimum of 10 years after date of delivery to POC.
<b>Counterfeit Parts &amp; Materials</b>	Supplier shall have a counterfeit parts avoidance, detection, mitigation, and disposition program meeting the requirements of Aerospace Standard AS5553. Seller shall only deliver authentic components, devices, pieces, material, modules, assemblies, subassemblies, goods, etc. that are manufactured by or obtained from original equipment manufacturers (OEMs), original component manufacturers (OCMs), or authorized distributors. Supplier shall not provide refurbished or re-used EEE parts, components, hardware, or materials. Supplier shall make available documentation that authenticates and provides traceability of the parts or materials to the applicable OEM or OCM.
<b>Change of Facility or Ownership</b>	The supplier shall notify POC when manufacturing operations being performed in support of this purchase order are moved to another facility with a separate street and/or city address. Supplier shall also notify POC if ownership of the supplier has changed.
<b>POC-Furnished Material</b>	If applicable, supplier shall certify that material used in fabrication is the material furnished by POC. Certification shall reference POC's Purchase Order of the material being supplied.
<b>MSDS Sheets</b>	If applicable, Material Safety Data Sheets are required for the product identified on this line of the Purchase Order. Please include these sheets in an envelope that is identified on the outside as the MSDS sheets with the packing list.
<b>Surveillance &amp; Right of Entry</b>	Representatives of POC, its customers, Government, and/or regulatory agencies (if applicable) reserve the right to visit the supplier and its suppliers with the intent of performing surveillance activities including inspections, surveys, audits, resolution of product quality issues, etc.
<b>Foreign Object Detection</b>	Materials, parts, and assemblies must be protected from the intrusion of foreign object debris that could potentially cause damage. As appropriate, the supplier have a Foreign Object Damage/Foreign Object Debris Prevention Program using National Aerospace Standard (NAS) 412 as a guideline.
<b>Electro-static Discharge Sensitive (ESDS) Materials</b>	If applicable, the supplier shall maintain an ESD Program meeting the requirements of ANSI/ESD S20.20 for the control, handling, packaging, and identification of ESDS parts and materials.
<b>Certificate of Conformance</b>	A legible "Certificate of Conformance" (C of C) statement shall be provided with each shipment submitted to POC. The C of C shall be in the supplier's format and may either be a separate document or may be included within the packing list. The C of C statement shall state that the items were produced in conformance with requirements as specified in the POC purchase order. As a minimum, the C of C shall note 1) the manufacturer or distributor's name and address; 2) the POC purchase order number; 3) the part number(s) and revision(s) when applicable; 4) traceability information including serial numbers, lot codes, or date codes as appropriate; 5) shelf-life expiration dates if applicable; and 6) signature of the supplier's authorized representative.

# Supplier Quality Clauses

## Part 2: Specific Quality Clauses

Quality Clause	Quality Clause Name	Quality Clause Requirement
<b>01</b>	<b>Inspection and Test Data</b>	The supplier shall provide inspection and test data with the subject item(s). Such test data shall include individual or summary parameter measurements as appropriate.
<b>02</b>	<b>POC Source Inspection</b>	POC source inspection is required prior to shipment from supplier's facility. POC shall be notified a minimum of 24 hours prior to intended shipment when items are ready for POC source inspection. To schedule, contact the POC buyer or Quality Assurance.
<b>03</b>	<b>Government Source Inspection</b>	Government inspection is required prior to shipment from supplier's facility. Upon receipt of purchase order, the supplier shall notify the government representative(s) who normally service the supplier's facility, for coordination and scheduling of inspection(s).
<b>04</b>	<b>First Article Inspection</b>	Supplier shall perform a First Article Inspection (FAI) on one piece chosen at random from the first lot presented for POC acceptance. The FAI shall be performed and documented per the requirements of SAE AS9102, or the supplier's equivalent format. A copy of the FAI report shall be submitted to POC with the shipment. If discrepancies are noted during the FAI, the supplier shall notify the POC purchasing representative for guidance. <b>Full or delta FAI's shall be required as appropriate</b> for 1) Revision change since the previous FAI (delta); 2) Changes to supplier's process (delta or full depending on change(s)); 3) Break in production exceeding 18 months (full FAI); or 4) Change of facility (full FAI).
<b>05</b>	<b>Limited-Life Material Requirements</b>	The supplier shall not submit limited-life material(s) with <u>less than 75%</u> of the useful life remaining without written approval from POC in the form of a POC-approved Supplier Deviation / Waiver (POC form F-021, see General Quality Clauses). The supplier shall label <u>each individual container</u> of limited-life materials with 1) the supplier lot number; 2) the date of manufacture; 3) the date of expiration; and 4) storage conditions if applicable.
<b>07</b>	<b>Calibration Services</b>	Calibration services shall calibrate and provide test reports in accordance with ANSI/NCSL Z540.1-1994 or other recognized metrology standards.
<b>09</b>	<b>Elastomeric Materials Information</b>	Documentation noting the manufacturer, cure date, raw material identification, expiration date (if applicable) and applicable specification numbers (military and/or industry, as applicable) shall accompany each shipment. The information may be included on the Certificate of Conformance or on a separate document. If the information has already been supplied to POC on a previous shipment, the supplier may reference the previous shipment on the Certificate of Conformance.
<b>10</b>	<b>Tool Proofing</b>	Acceptance of production tooling on this Purchase Order shall be contingent upon inspection and acceptance by POC.
<b>11</b>	<b>POC Furnished Tooling</b>	Tooling (fixtures, jigs, molds, etc.) and test equipment fabricated by the supplier at POC expense, or furnished by POC, is considered property of POC unless otherwise agreed upon. POC is responsible for routine and periodic maintenance and calibration of such items. Suppliers are responsible for insuring appropriate protection during transport, storage, and use. Some amount of wear and tear is expected through usage. Said tooling, or replacement tooling of equal quality, shall be returned in an acceptable condition upon demand.
<b>15</b>	<b>Acceptance Sampling</b>	Acceptance sampling inspection may be utilized during performance of this order. Prior to use, the sampling plan must be submitted and approved by POC Quality Assurance. The use of a sampling plan in no way effects POC's right to reject any unit(s) of product found defective.
<b>16</b>	<b>Solderability, Date Codes &gt; 4 years</b>	Unless otherwise agreed upon between POC and supplier, EEE parts with date codes older than 4 years must perform a minimum 1-piece solderability test (in accordance with or equivalent to Quality Clause 18) with evidence including photos provided to POC QA and Project Lead for review and approval before any assembly can be produced with the parts.
<b>17</b>	<b>POC-Directed Source</b>	The Supplier shall use only those sources of goods or services that have been approved by POC. Such direction is generally provided on the POC purchase order. If not specified, contact assigned POC Procurement Representative for direction.
<b>18</b>	<b>Solderability</b>	Component leads, terminations, lugs, terminals, and wires shall be capable of meeting the solderability requirements of IPC/EIA J-STD-002. Printed wiring boards shall be capable of meeting the solderability requirements of IPC/EIA J-STD-003.
<b>19</b>	<b>Material from Different Lots</b>	The Supplier may furnish material from different heats, lots, or batches, as applicable. Where shipments contain parts with different cure dates or are from different heats, lots, or batches, sub-lot separation with a separate certification for each sub-lot is required.
<b>20</b>	<b>Single Lot / Date Code Traceability</b>	Parts and materials provided against this line item shall be from one lot, manufactured and/or processed at the same time, and shall be traceable to the same raw material lot(s). For example, machined parts shall be manufactured in the same production run and utilize raw material from the same lot.
<b>21</b>	<b>Mercury Exclusion</b>	The items supplied under this Purchase Order shall contain no metallic mercury or mercury compounds and must be free from mercury contamination.
<b>22</b>	<b>Specialty Metals</b>	1) This order is subject to the requirements of DFARS 252.225-7009 Restriction of Acquisition of Article Containing Specialty Metals or <b>DFARS 252.225-7014 Preference for Domestic Specialty Metals and Alternate 1</b> found at: <a href="http://www.acq.osd.mil/dpap/dars/dfars/html/current/252225.htm">http://www.acq.osd.mil/dpap/dars/dfars/html/current/252225.htm</a> . 2) A statement certifying compliance to DFARS 252.225-7009 or DFARS 252.225-7014 <u>shall be included</u> for each shipment of the item delivered. This statement shall be signed with the title 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.
<b>23</b>	<b>Raw Material Test Reports or Certifications</b>	Supplier shall provide <u>either</u> 1) raw material test reports containing detailed physical and chemical analysis and data; <u>or</u> 2) evidence of conformance (raw material Certificate of Conformance) to <u>recognized specifications</u> (ASTM, Mil-Spec, WS spec, etc.). <u>For additional shipments</u> utilizing the same raw materials, the supplier may either 1) provide additional copies of the same raw material test reports or certifications; or 2) reference previous shipments.

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Quality Clause	Quality Clause Name	Quality Clause Requirement
<b>25</b>	<b>Date Codes &gt; 5 Years</b>	Electronic components with manufacturing date codes in excess of 5 years old shall not be provided. Should it not be possible to meet this requirement, supplier must contact POC purchasing representative for direction.
<b>29</b>	<b>Traceability – Part Serial Number (If Applicable)</b>	Each part, component, or assembly specified on this Purchase Order shall be identified with a distinct serial number. Serial numbers shall not be duplicated for one part, component, or assembly number when manufactured in sequential lots and noted on shipment documentation.
<b>30A</b>	<b>Printed Circuit Boards, Class 3</b>	Unless otherwise specified on the POC fabrication drawing, printed circuit boards (PCB's) shall meet the workmanship requirements of IPC-A-600, Class 3. When specified on the Purchase Order, independent testing is required prior to shipping the printed wiring boards. All test results and test specimens shall accompany shipments.
<b>30B</b>	<b>IPC-6012</b>	Fabricate to the requirements of IPC-6012, Class 3 per IPC-6011. Acceptance requirements shall be in accordance with IPC-A-600, Class 3.
<b>30C</b>	<b>Soldering Workmanship, Class 3</b>	Soldering and assembly workmanship shall be in accordance with the requirements of IPC/EIA J-STD-001, Class 3. Acceptance requirements shall be in accordance with IPC-A-610, Class 3.
<b>30D</b>	<b>Soldering Program, Class 3</b>	The manufacturer shall be responsible for maintaining certified personnel, facilities, and processes in accordance with the latest revision of IPC/EIA-J-STD-001, IPC-A-610 Class 3. All certifications must be an IPC (registered) approved certificate. POC reserves the right to verify compliance.
<b>30E</b>	<b>Printed Circuit Boards, Class 2</b>	Unless otherwise specified on the POC fabrication drawing, printed circuit boards (PCB's) shall meet the workmanship requirements of IPC-A-600, Class 2. When specified on the Purchase Order, independent testing is required prior to shipping the printed wiring boards. All test results and test specimens shall accompany shipments.
<b>30F</b>	<b>Soldering Workmanship, Class 2</b>	Soldering and assembly workmanship shall be in accordance with the requirements of IPC/EIA J-STD-001, Class 2. Acceptance requirements shall be in accordance with IPC-A-610, Class 2.
<b>30H</b>	<b>Harnesses and Cables</b>	The manufacturer shall be responsible for maintaining facilities, certified personnel, processes, and procedures in accordance with the latest revision of IPC-WHMA-620, Class 3.
<b>33</b>	<b>Printed Wiring Boards</b>	Independent testing is required prior to shipping the printed wiring boards. All test results and test specimens shall accompany this shipment.
<b>35</b>	<b>PWB Certification</b>	Fabricators of printed wiring boards must be certified to MIL-PRF-55110, MIL PRF 31032, or MIL-P-50884.
<b>36</b>	<b>Parts Obsolescence Program</b>	The Supplier represents that it will: 1) Maintain sufficient components and materials necessary to perform this order, including obtaining commitments from its suppliers required to meet all obligation and option requirements. 2) Ensure that it can provide adequate notice of parts and materials that will no longer be available for a period of 24 months. 3) Notify POC of part and materials which are due to be discontinued.
<b>38</b>	<b>Government Contract Orders (DPAS)</b>	When DPAS rating is flowed down in the purchase order, the supplier is required to flow down the rating to the EEE parts suppliers for priority allocation.
<b>40</b>	<b>Nadcap-Approved Special Processors Required</b>	The supplier shall utilize Nadcap-approved special processors to perform special processes as defined by Nadcap. Nadcap-approved special processors are listed in the eAuditnet Online QML at: <a href="https://www.eauditnet.com/eauditnet">https://www.eauditnet.com/eauditnet</a>
<b>43</b>	<b>Export Control</b>	Export Control Notice. This P.O. may contain technical data whose export, transfer, and /or disclosure may be controlled by the U.S. International Traffic and Arms Regulation (ITAR) 22 CFR part 120-130 or the Export Administration Regulations Commerce.
<b>45</b>	<b>Special Processors, Certifications, and Reports</b>	Suppliers are encouraged to utilize Nadcap-approved special processors wherever possible. Otherwise, special processors shall be capable of certifying their processes to the applicable industry specification(s) as required by the POC drawing. Applicable special process specification(s), type, class, etc. as specified on the POC drawing or industry specification shall be referenced on the certificate of conformance. If applicable, documentation shall also include actual measurements to verify conformance to requirements.
<b>46</b>	<b>POC-Directed Special Processors</b>	<b>Special Processor Selection:</b> The supplier must use special processors as directed by POC on the PO. If direction is not provided, contact POC Purchasing for direction before proceeding. <b>Certification Requirements:</b> The supplier shall furnish a special process certification <u>in addition to</u> the certificate of conformance as required by the general requirements. The certification shall specify the applicable special process specification(s) (plating, heat treat, passivation, etc.), type, class, etc. as specified on the POC drawing or industry specification, plus as applicable, documentation noting actual measurements verifying conformance to requirements.
<b>49</b>	<b>Circuit Card Assembly, POC-Provided Material</b>	The supplier is required to satisfy the following: 1) All general requirements as noted in Part 1, with the exception of: <u>Traceability</u> and <u>Counterfeit Parts &amp; Materials</u> . 2) All notes as documented on pertinent POC fabrication, specification and source control, and assembly drawings. 3) All documents referenced within the PO, drawing package, and BOM including test and inspection procedures. 4) The following specific quality clauses: <b>01, 19, 29, 43</b>
<b>50</b>	<b>Circuit Card Assembly, Turn-key, Supplier-Provided Material</b>	The supplier is required to satisfy the following: 1) All general requirements as noted in Part 1; 2) All notes as documented on pertinent POC fabrication, specification and source control, and assembly drawings. 3) All documents referenced within the PO, drawing package, and BOM including test and inspection procedures. 4) The following specific quality clauses: <b>01, 04, 16, 19, 25, 29, 43</b>