



## General Requirements (GR)

Supplier is responsible for meeting all the General Requirements (GR) as an approved supplier of Extant Aerospace

GR#	SUBJECT	REQUIREMENT(S)
1	Quality system & flow down	<p>Quality System &amp; Flow down - Supplier shall maintain a documented Quality System that is compliant to ISO9001:2015 at a minimum. Extant Aerospace reserves the right to perform an on-site audit of the Suppliers' Quality Management System.</p> <ul style="list-style-type: none"><li>• Supplier is responsible for ensuring all inspection, tests and calibrations necessary to substantiate that the products, materials or services furnished under the purchase order/contract conform to all requirements.</li><li>• Supplier shall maintain controls over nonconforming products/materials including the identification and segregation of defective products/materials.</li><li>• Supplier shall have an effective corrective action system to identify and eliminate defects.</li><li>• Upon completion of their purchase order, the Supplier shall retain all manufacturing, inspection and test records (including nonconformance and corrective action reports) on file for a minimum of eleven (11) years unless otherwise specified in the purchase order. (FAA driven requirement)</li><li>• Supplier shall flow down requirements of this purchase order to sub-tier suppliers</li></ul>

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2	<p align="center"><b>MRB (Material Review Board) authority for repair</b></p>	<p>The supplier <b>does not</b> have MRB authority to accept or <b>repair</b> nonconforming product. Non conformances on final deliverable product to the purchase order, drawing, specifications, or applicable documents must be submitted to Extant Aerospace for approval prior to shipment. <b>Note: This clause doesn't apply to items considered COTS.</b> Supplier may request clarification, waiver or deviate from drawing or specifications using Extant Aerospace SIR (Supplier Information Request), form number SIF-PRO-015.</p> <p>The SIR form can be used for the following:</p> <ul style="list-style-type: none"> <li>• Clarification of the purchase order associated Q- Notes, terms and conditions, referenced drawings or models, specifications, and Gerber files.</li> <li>• Request for deviation to drawing, model and/or specification.</li> <li>• To request a permanent change to drawing and/or specification requirements.</li> <li>• Request for part substitution.</li> </ul> <p>Supplier shall complete the SIR and submit to Extant Aerospace's Purchasing Department for review and approval. A copy of the approved SIR must accompany the shipment to Extant Aerospace. Obtain this form through the Extant Aerospace Buyer</p>
3	<p align="center"><b>FOD (Foreign Object Debris)</b></p>	<p>The supplier shall develop and maintain a Foreign Object Debris/Damage ("FOD") Prevention Program, per AS9146 requirements, to prevent introduction of foreign objects into any item delivered under this purchase order. The supplier shall employ appropriate housekeeping practices to assure timely detection and removal of residue/debris generated, if any, during manufacturing operations and/or normal daily tasks. All occurrences of product rejections due to FOD shall be documented and investigated to determine the root cause of the FOD and implement actions to prevent any recurrence.</p> <p>The supplier shall determine if sensitive areas that may have a high probability for introduction of foreign objects should have special emphasis/appropriate controls in place for the manufacturing environment. The supplier shall provide initial and periodic FOD prevention awareness training programs.</p>
4	<p align="center"><b>Preservation, packaging, and shipping</b></p>	<p>Unless specific packaging instructions are referenced on the purchase order, the Supplier shall assure that material to be shipped is clean, dry, and packaged in a manner that will afford adequate protection against corrosion, deterioration, and physical damage during shipment. Static generating materials (such as Styrofoam and plastic) shall not be used as primary packaging in direct contact with the parts/materials.</p>
5	<p align="center"><b>Calibration</b></p>	<p>Calibration system must be compliant to ISO 17025, ANSI Z540-1, or ANSI Z540.3</p>



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6	ITAR	Company should be ITAR Registered. Consideration will be made on a case-by-case review. In addition, each supplier will need to be cleared from the restricted list on each PO
7	Sampling plans	Sampling Plans are IAW ANSI/Z1.4-2008 AQL 2.5 C=0 or approved by Supplier Quality Engineer
8	Form completion & submissions	Completion and submission of the following forms <ul style="list-style-type: none"> <li>• SIF-QA-132 Supplier Profile</li> <li>• EUS will need to be created on initial opportunities</li> </ul>
9	DELETED	
10	Shipments	Shipments to include: <ul style="list-style-type: none"> <li>• Pack slip:             <ul style="list-style-type: none"> <li>Supplier Name, Extant Aerospace Part number, Extant Aerospace Revision Level, Extant Aerospace contract number (PO#), Line/release number (when applicable), • Quantity delivered, Country of Origin</li> </ul> </li> <li>• Certificate of Conformance and Certificate of Analysis and/or Certificate of Conformance of the raw material</li> <li>• A signed C of C by the Suppliers head of quality or company officer (or their authorized delegate) attesting that all products and/or services delivered are in compliance with all contract requirements shall be furnished with each shipment to Extant Aerospace, All C of C's must be in the English language and may be in electronic format with electronic signatures. All signatures or signature blocks must clearly show title of the signatory. The C of C shall include:             <ul style="list-style-type: none"> <li>Supplier Name, Extant Aerospace Part number and Supplier Part Number, drawing/specification revision, Extant Aerospace contract number, line/release number (when applicable), Quantity delivered, Packing list/shipper number (when applicable). When additional certifications/test reports are required for special processing, raw material, etc. the requirements will be specified on the contract.</li> </ul> </li> </ul>

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<p>11</p>	<p><b>First Article Inspection (FAI)</b></p>	<p>The Supplier shall perform and document First Article Inspection in accordance with SAE AS9102 (latest revision in affect at time of Purchase Order placement). The Supplier shall perform FAI the first time the Supplier produces an item for Extant Aerospace or if it has been greater than 24 months since the last production of that item or there is a change to the drawing for that item. All drawing notes and dimensions shall be verified. Inspection and measurement results shall be recorded, including actual measurements with location identified. The FAI test report, sample and material certifications for all raw materials and finishes (see Q4) shall be included with the shipment.</p> <p>Note: Tag or Identify part that the FAIR was performed on.</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• This requirement is not applicable to Commercial Off the Shelf parts.</li> <li>• Bubble Drawing is required with the FAIR submission</li> <li>• FAIR to be completed per the Extant Aerospace – Requirements document V-QUAL-FAIR-001.</li> <li>• (Applicable to PCB Parts): If the First Article requirements have been met then the applicable “Additional Requirements for Printed Circuit Boards (PCB)” of Q23B are imposed for each shipment.</li> <li>• (Applicable to Machined/Fabricated Parts): If the First Article requirements have been met then the applicable “Additional Requirements for Machined/Fabricated Parts” of Q23B are imposed for each shipment.</li> </ul> <p>Make sure all the notes and requirements in the Title Block are captured.</p>
<p>12</p>	<p><b>Changes to Process, material, or location</b></p>	<p>No changes to Process, Material, or Location without notification. Based on the change, Extant Aerospace will request a validation plan. Extant Aerospace to respond within 7 days of notification.</p>
<p>13</p>	<p><b>Corrections to documents</b></p>	<p>Corrections to documents can be accomplished by the following methods:</p> <ul style="list-style-type: none"> <li>• Reprint the document.</li> <li>• Cross out the incorrect data with a single line, initial (Sign or stamp) and date.</li> <li>• "White out" and Correction tape are <b>not acceptable</b>.</li> </ul>

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<p>14</p>	<p><b>Notification Requirement</b></p>	<p>Notification Requirement – Supplier is required to notify Extant Aerospace when any of the following occur:</p> <ul style="list-style-type: none"> <li>• Changes to QMS Certification.</li> <li>• Changes to FAA certifications.</li> <li>• Notice of escapes (Non-conforming Product).</li> <li>• GIDEP Alerts.</li> <li>• Company Changes i.e. Change in Quality Leadership, change in Managerial Leadership (Senior leadership).</li> <li>• Cage code changes.</li> </ul>
<p>15</p>	<p><b>Control and release of Extant Aerospace furnished documents</b></p>	<p>Documents furnished by Extant Aerospace to the Supplier are furnished solely for the purpose of doing business with Extant Aerospace. Proprietary documents may be furnished to the Supplier in hard copy, electronic or other media. The Supplier is responsible for controlling and maintaining such documents to preclude improper use, loss, damage, alteration and/or deterioration. <b>Unless authorized by the Extant Aerospace Buyer in writing, the Supplier may not transmit or furnish any Extant Aerospace furnished documents, or copies of such documents, to anyone outside the Supplier's business organization except to a sub-tier source used by the Supplier for performance of work on the Extant Aerospace contract.</b></p> <p>The subcontractor will need to be cleared by Extant ITC prior to release of the documents via the EUS template. The Supplier shall return to Extant Aerospace, or purge electronic copies of, all proprietary documents.</p>
<p>16</p>	<p><b>Control of Sub-Tier Suppliers</b></p>	<p>The Supplier, as the recipient of the contract, is responsible for meeting all requirements, including work performed by the Supplier's sub-tier Suppliers (also known as Sub-Suppliers or subcontract Suppliers). When the Supplier uses sub-tier sources to perform work on products and/or services scheduled for delivery to Extant Aerospace, the Supplier shall include (flow-down) on contracts, to its sub-tier sources, all of the applicable technical and quality requirements contained in the Extant Aerospace contract, including quality system requirements, regulatory requirements, and the requirement to document and control 'key characteristics' and/or 'key processes,' and to furnish certifications and test reports as required. <b>Extant Aerospace and its customers reserve the right of-entry to sub-tier facilities, subject to proprietary considerations.</b></p>



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17	<b>Statistical Process Control</b>	Where applicable, the Supplier is required to apply effective statistical process controls. Suppliers should consult the Statistical Process Control (SPC) manual published by AIAG for guidance, methods, examples, and related reference information.
18	<b>Preventive Maintenance</b>	The Supplier should identify key process equipment and provide resources for machine/equipment maintenance activities and develop an effective planned total preventive maintenance system.
19	<b>Source Inspection</b>	Supplier's products or services <b>may be</b> subject to source inspection by Extant Aerospace, representatives of Extant Aerospace or applicable government or regulatory agencies. Source inspection requirement will be included on the contract and may apply to all operations performed by the Supplier(s), including prior to delivery of products to Extant Aerospace. The Supplier shall provide the necessary access, equipment and resources required to effectively accomplish the source inspection.
20	<b>Raw material control</b>	For Extant Aerospace, in those cases where the Supplier elects to use more than one lot of raw material, the Supplier shall ensure, document, and furnish positive traceability of each individual product to the raw material certification/test report that represents the raw material from which each of the products was manufactured. Traceability shall be provided by identifying the raw material heat, lot, batch or melt number from the certification/test report on the product and/or on packaging (when used), or the products segregated and identified.
21	<b>Labeling</b>	Boxes must be labeled and contain the following information: <ul style="list-style-type: none"><li>• Extant Aerospace Part Number</li><li>• Extant Aerospace PO Number</li><li>• Extant Aerospace Revision level</li><li>• Extant Aerospace Line # and Release Number</li><li>• Quantity</li></ul>



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22	<b>Counterfeit Prevention Program</b>	<p>All suppliers shall plan and take appropriate action to prevent the migration of counterfeit parts and assemblies into products being delivered under this order. All Suppliers must meet the same Certificate of Conformance requirements as those required from an OEM or Franchised Distributor. If the certificate requirement cannot be met, the inspection and test requirements defined below must be met.</p> <p>All suppliers shall provide their own certification that warrants parts to be "original" (that is not used, refurbished, or reworked). If supplier cannot provide this certification, the parts may not be procured.</p> <p>Electrical Component Suppliers are responsible to validate any Mil- Spec Electronic Component delivered against an Extant Aerospace purchase order to have a date code that falls within the timeframe listed in the QPL/ QML and the Manufacturers Designating Symbol. The supplier shall assure the date code and the manufacturers' location is within all time constraints of the QPL/QML.</p>
23	<b>Digital Product Definition (DPD)</b>	<p>When design requirements are in a DPD format and traditional 2D drawing information is not available for all applicable design requirements, DPD design characteristics required for product realization shall be extracted, verified, and included in the FAIR.</p> <p>The organization shall:</p> <ol style="list-style-type: none"><li>1. Establish a process to extract the applicable DPD design characteristics.</li><li>2. Extract the DPD design characteristics required for product realization.</li><li>3. Ensure the production, inspection, and operations requiring have been completed as planned to achieve DPD design characteristics.</li></ol>
24	<b>Order of Precedence</b>	<p>The Terms and Conditions Clause establishes the order of precedence. Extant Aerospace drawings and specifications will take precedence over the requirements of this document unless otherwise stated on the Purchase Order</p>

<p>25a</p>	<p><b>Inspection &amp; test requirements</b></p>	<p>If any source of supply cannot provide a Certificate of Conformance certifying the component is the part number being procured on the Extant Aerospace Purchase Order AND establishing traceability to the Original Equipment Manufacturer, the component may only be procured if the following inspection and test requirements are met. All inspection and testing performed to satisfy the conditions of this Q-Note shall be performed by an Extant Aerospace approved test laboratory. The test laboratory may be an independent, 3rd party lab or an in- house lab that is affiliated with an approved Independent Distributor. Test results will not be accepted from non- approved Test Laboratories.</p> <p>The supplier (Broker or Independent Distributor) is responsible for ensuring the required testing listed on purchase order is performed and that test results for the product supplied to Extant Aerospace are compliant. The term “Lot Acceptance Testing”, as used herein, shall be defined as: Lot testing at specified temperature range, as defined in the OEM device data sheet. The data sheet may identify these requirements as Group A testing, critical parameters, or key performance parameters.</p> <p>PER AS5553A:</p> <ul style="list-style-type: none"> <li>• External Visual – entire lot for general inspection I.A.W. AS6081 4.2.6.4.2.1</li> <li>• External Visual – for lot size <math>\geq 200</math>: 122 pcs for detailed external visual inspection I.A.W. AS6081 4.2.6.4.2.2</li> <li>• External Visual – for lot size 1 - 199: 122 pcs or all devices whichever is less for detailed external visual inspection I.A.W. AS6081 4.2.6.4.2.2</li> <li>• Package Dimensions – 3 pcs</li> <li>• Marking Permanency – 1 pc per lot date code</li> <li>• Heated Chemical Test for resurfacing – for lot size 1 - 99: 1 pc per lot date code</li> <li>• Heated Chemical Test for resurfacing – for lot size <math>\geq 100</math>: 3 pcs per lot date code</li> <li>• Internal Visual (decapsulation) inspection – for lot size 1 - 99: 1 pc per lot date code</li> <li>• Internal Visual (decapsulation) inspection – for lot size <math>\geq 100</math>: 3 pcs per lot date code</li> <li>• X Ray Inspection – for lot size <math>\geq 200</math>: 45 pcs for X Ray inspection I.A.W. AS6081 4.2.6.4.4</li> <li>• X Ray Inspection – for lot size 1 - 199: 45 pcs or all devices whichever is less for X Ray inspection I.A.W. AS6081 4.2.6.4.4</li> <li>• Electrical Test (curve tracer or limited function) – for lot size <math>\geq 200</math>: 116 pcs for Electrical Testing</li> <li>• Electrical Test (curve tracer or limited function) – for lot size 1 - 199: entire lot for Electrical Testing</li> </ul>
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<p><b>25b</b></p>	<p><b>Integrated Circuits (IC)</b></p>	<p>The component supplier must verify that the physical attributes of the package meet the data sheet specifications and that the case/package marking is consistent with the marking requirements given in the OEM device data sheet and, if applicable, the Extant Aerospace drawing.</p> <p>The component supplier must de-lid a minimum of one (1) sample IC from each date or lot code. Extant Aerospace must approve any alternative methods of compliance for the determination of authenticity in circumstances where the lot is comprised of small quantities of multiple date codes.</p> <p>Confirm and document that the device die is a product of the OEM indicated on the case/package marking. Contact the OEM to obtain verification that the die and case/package markings, as well as date/lot codes are valid. If the verification is provided, the lot is acceptable with little or no further testing.</p> <p>If OEM date and lot codes are NOT valid or OEM verifies, they DID NOT manufacture the part, the lot must be rejected.</p> <p>If OEM verification cannot be obtained, Lot Acceptance Testing, as defined below, must be performed.</p>
<p><b>25c</b></p>	<p><b>Perform Lot Acceptance testing, if required</b></p>	<ul style="list-style-type: none"> <li>• If OEM verification cannot be obtained, perform Lot Acceptance Testing, as specified on the device data sheet and, if applicable, the Extant Aerospace drawing.</li> <li>• Sample size: As specified on the OEM's data sheet. If no sample size is specified, it shall be 116/0. That is, a sample size of 116 randomly selected from each lot/date code and submitted to the specified testing.</li> <li>• If the lot size is less than the required sample size (116), each device in the lot must be tested and all failed devices removed from the lot.</li> <li>• If any device in the sample fails any parameter in the lot acceptance testing, each additional device in the lot shall be tested on the same test set-up for all parameters in the test, and all failed devices shall be removed from the lot. If this testing results in a percent defective greater than 5 percent, the results shall be submitted to Extant Aerospace for lot disposition prior to use of any device in the lot.</li> </ul>

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<p><b>25d</b></p>	<p><b>Components that are not Integrated Circuits and Non-electronic components</b></p>	<ul style="list-style-type: none"> <li>• The Component Supplier must verify that the physical attributes of the part meet the data sheet/drawing specifications and that the case/package marking is consistent with the marking requirements given in the OEM device data sheet and, if applicable, the Extant Aerospace drawing.</li> <li>• Additional tests (destructive and/or non-destructive) shall be performed in accordance with AS6174 appendix E.1.3.</li> <li>• Contact OEM to obtain verification that case/package markings and date/lot codes are valid. If the verification is provided, the lot is acceptable with no further testing.</li> <li>• If OEM date and lot codes are NOT valid or OEM verified, they DID NOT manufacture the part, the lot must be rejected.</li> <li>• If OEM verification cannot be obtained, perform Lot Acceptance Testing, as specified on the device data sheet and, if applicable, the Extant Aerospace drawing.</li> <li>• Sample size: As specified on the OEM's device data sheet. If no sample size is specified on the OEM data sheet, sample size shall be 116/0. That is, a sample size of 116 shall be randomly selected from each lot/date code and submitted to the specified testing.</li> <li>• If the lot size is less than the required sample size (116), each device in the lot shall be tested and all failed devices removed from the lot.</li> <li>• If any device in the sample fails any parameter in the lot acceptance testing, each device in the lot shall be tested on the same test set-up for all parameters in the test, and all failed devices shall be removed from the lot. If this testing results in a percent defective greater than 5 percent, the results shall be submitted to the Extant Aerospace buyer for lot disposition prior to the use of any devices in the lot.</li> </ul>
<p><b>25e</b></p>	<p><b>Documentation Requirements</b></p>	<p>Documentation requirements shall be in accordance with this Document and/or as directed by Extant Aerospace purchase order.</p>