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By accepting a purchase contract from Canyon Composites, you are accepting responsibility for all General and Special Quality Clauses as described in either TYPE 1 or 2 below:

### **TYPE 1: NON FLIGHT ORDERS**

**General Quality Clauses applicable to purchase orders NOT REQUIRING  
a Certificate of Conformance (POQC-01 Not Required or Not Listed in the Purchase Order Body)**

*In addition* to specific quality clauses listed in the body of the Purchase Order, the following General Clauses apply:

- POQC-08 IDENTIFICATION / MARKING
- POQC-10 CONTROL OF NONCONFORMING PRODUCT AND CORRECTIVE PRESENTATIVE ACTION
- POQC-11 (C) QUALITY SYSTEM (MINIMUM REQUIREMENT)
- POQC-14 CANYON AND/OR CANYON'S CUSTOMER SURVEY/AUDIT
- POQC-17 PACKAGING/SHIPMENT
- POQC-21 PART/MATERIAL/PROCESS SUBSTITUTIONS PROHIBITED
- POQC-31 SUPPLIER INTERNAL COMMUNICATION
- POQC-32 COMPETENCE

### **TYPE 2: FLIGHT TRACEABLE ORDERS**

**General Quality Clauses applicable to purchase orders REQUIRING  
a Certificate of Conformance (POQC-01 Required and Listed in the Purchase Order Body)**

*In addition* to specific quality clauses listed in the body of the Purchase Order, the following General Clauses apply depending on the product or service supplied:

- POQC-01 C.O.C. (CERTIFICATE OF CONFORMANCE)
- POQC-02 MATERIAL CERTIFICATION, CHEMICAL AND/OR PHYSICAL TEST DATA, LOT TRACEABILITY
- POQC-03 PROCESS CERTIFICATION
- POQC-04 D.I.R. (DIMENSIONAL INSPECTION REPORT)
- POQC-06 TEMPERATURE/SHELF LIFE SENSITIVE MATERIALS
- POQC-07 CERTIFICATE OF ANALYSIS (C.O.A.)/ TEST REPORT
- POQC-08 IDENTIFICATION / MARKING
- POQC-10 CONTROL OF NONCONFORMING PRODUCT AND CORRECTIVE PRESENTATIVE ACTION
- POQC-11 (B) QUALITY SYSTEM (INSPECTION ABILITY REQUIREMENT OR BETTER)
- POQC-14 CANYON AND/OR CANYON'S CUSTOMER SURVEY/AUDIT
- POQC-15 SUPPLIER SUB-TIER PROCESS CONTROL
- POQC-16 MEASURING AND TEST EQUIPMENT/CALIBRATION SYSTEM
- POQC-17 PACKAGING/SHIPMENT
- POQC-18 PROHIBITED MATERIALS
- POQC-19 ACQUISITION/USE OF NON-0DOMESTIC SPECIALTY METAL
- POQC-20 FOREIGN OBJECT DEBRIS (FOD) PREVENTION PROGRAM
- POQC-21 PART/MATERIAL/PROCESS SUBSTITUTIONS PROHIBITED
- POQC-22 RIGHT OF ACCESS
- POQC-23 RECORDS RETENTION
- POQC-24 CHANGES TO PROCESS
- POQC-25 CUSTOMER SPECIAL PROCESS FLOW-DOWN REQUIRMENTS (SPECIFIC)
- POQC-26 COUNTERFEIT MATERIAL AVOIDANCE PROCESS REQUIREMENTS
- POQC-27 SPACEFLIGHT FASTENER REQUIREMENTS – NASA-STD-6008
- POQC-28 FOD PREVENTION PROGRAM
- POQC-29 PROHIBITED MATERIALS
- POQC-30 DPD/MBD-BOEING D651991 COMPLIANCE
- POQC-31 SUPPLIER INTERNAL COMMUNICATION
- POQC-32 COMPETENCE



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#### **POQC-01:**

##### **C.O.C. (CERTIFICATE OF CONFORMANCE):**

The supplier shall provide a Certificate of Conformance that certifies that all materials and processes supplied are in accordance with Canyon Composites, Inc. Purchase Order. This document should be signed and dated by the Supplier's Representative. Specifications, Standards, Drawings noted on the Purchase Order are to be of the latest revision unless specifically stated. **Note: An example would be a specifically stated revision level such as "Rev. A".**

#### **POQC-02:**

##### **MATERIAL CERTIFICATION, CHEMICAL AND/OR PHYSICAL TEST DATA, LOT TRACEABILITY:**

- A) The Supplier shall furnish material certifications traceable to the lot, batch, block number or heat lot (metals) supplied in accordance with the applicable specification, (latest revision applies unless specifically stated) engineering drawing and/or Canyon Composites, Inc. Purchase Order.
- B) The Supplier shall furnish material certifications listing actual test results traceable to the lot, batch, block, or heat lot number in accordance with the applicable specification, engineering drawing and/or Canyon Composites, Inc. Purchase Order. All test data and certifications traceable to the materials supplied must be kept on file for a minimum of seven (7) years unless otherwise specified by the Canyon Composites, Inc. Purchase Order. **Note: When specified on the Purchase Order, raw material such as titanium, aluminum, etc. must have the appropriate heat lot stamped on each piece for heat lot traceability.**

#### **POQC-03:**

##### **PROCESS CERTIFICATION:**

The Supplier shall furnish Certifications of Conformance for all special processes in accordance with applicable specifications and/or engineering drawing as required by the Canyon Composites, Inc. Purchase Order. Special process certifications for serialized parts and/or assemblies must reference the applicable serial number(s) for traceability. **Caution: When specified on the Purchase Order, the Supplier performing the special process must be customer approved (ISO 9001, etc.).**

#### **POQC-04:**

##### **D.I.R. (DIMENSIONAL INSPECTION REPORT):**

The Supplier shall furnish an inspection report for each lot of parts furnished to Canyon Composites. Unless otherwise stated on the purchase order, 100% of the features are to be inspected with feature dimension, tolerance, actual dimension, tool used, and calibration recall date listed on the inspection report. A sampling plan may not be used unless it is specifically noted on the purchase order and must meet the requirements of ANSI/ASQC Z1.4 (formerly MIL-STD-105) and demonstrate that parts meet all drawing, specification and/or Purchase Order requirements. If a sampling plan is requested on the purchase order, a sampling plan may be based on a sample inspection of the most critical features of the parts.

#### **POQC-05:**

##### **F.A.I.R. (FIRST ARTICLE INSPECTION REPORT):**

The Supplier shall furnish a complete First Article Inspection Report (*F.A.I.R.*) for one or more parts, *listing actual inspection results* for all drawing dimensions and all applicable notes. The parts used to perform the First Article shall be tagged. First Article acceptance by Canyon Composites, Inc. shall not constitute final acceptance of the lot nor relieve the Supplier of the obligation to furnish all parts that meet all drawing, specification and/or Purchase Order requirements.

#### **POQC-06:**

##### **TEMPERATURE/SHELF LIFE SENSITIVE MATERIALS:**

The Supplier shall provide certifications for temperature and age sensitive materials, i.e. epoxies, paints, prepregs, adhesives, etc., which reflect date of manufacture, date of test, shelf life, expiration date, and storage temperature as it applies to each lot/batch. Container label(s) must also reflect applicable lot/batch number(s), storage temperature and expiration date. Do not ship materials having less than 90% shelf life remaining without the written approval of the Canyon Composites, Inc. Purchasing Agent.

#### **POQC-07:**

##### **CERTIFICATE OF ANALYSIS (C.O.A.)/TEST REPORT:**

The Supplier shall furnish a C.O.A. or Test Report, and test data as required by the applicable specifications, drawings, and/or Purchase Order requirements for testing performed. Each C.O.A. or Test Report shall be traceable to the material or parts tested and shall include the specification or drawing revision level. Signature and title of authorized representative of the performing organization, and the applicable



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specification. The C.O.A. or Test Report shall include the testing method(s) used. An example would be: A-Scan, C-Scan, Dye Penetrant, Fiber Volume Testing, Fluorescent Penetrant, Magnetic Particle, Nondestructive Testing, Radiographic Analysis, Thermal Cycling, Twist Testing, Void Content Testing, etc.

**POQC-08:**

**IDENTIFICATION/MARKING:**

The Supplier shall identify all items, parts, components, subassemblies and/or assemblies with the appropriate part number and revision level as noted on the part drawing or as otherwise specified in this Purchase Order. Parts and/or materials that are not suitable for marking due to size and/or configuration may be identified using the bag and tag methods outlined in MIL-STD-130.

**POQC-09:**

**CANYON COMPOSITES, INC. SOURCE INSPECTION:**

This Purchase Order requires that Canyon Composites, Inc. Source Inspection be performed prior to shipment. Please notify the Canyon Composites, Inc. Purchasing Agent, 48 hours in advance of the date source inspection will be required at your facility. Canyon Composites, Inc. Source Inspection does not preclude subsequent inspection, nor does it relieve the supplier of the responsibility of providing acceptable product.

**POQC-10:**

**CONTROL OF NONCONFORMING PRODUCT AND CORRECTIVE/PREVENTATIVE ACTION:**

The Supplier shall provide prompt, written notification to Canyon Composites, Inc., when nonconforming material or products, affecting drawing, P.O., or specification requirement issues are discovered. The supplier shall not ship such nonconforming until authorization to ship has been obtained from the Canyon Composites, Inc. buyer. The supplier may submit requests for nonconforming material or product review by Canyon Composites, Inc. at the time of notification. The Seller will provide a Corrective/Preventative Action when discrepant material is received by the Buyer. A written report will be furnished within a reasonable time, which is specific and conclusive in nature, to prevent a recurrence of the discrepancy.

**POQC-11:**

**QUALITY SYSTEM:**

- A) The supplier must be able to maintain a Quality System that meets or exceeds ISO 9001-2000 or AS 9100 (current revision).
- B) The supplier must be able to maintain a Quality System that meets or exceeds MIL-I-45208A.
- C) The supplier must be able to maintain a Quality System that meets or exceeds industry standards and ensures adequate product conformance and appropriate objective evidence to meet usual business responsibilities.

**POQC-12:**

**CANYON AND/OR CANYON'S CUSTOMER WITNESS INSPECTION:**

Work under this Purchase Order/contract is subject to Canyon and/or Canyon's Customer witness inspection at supplier's facility and/or sub-tier supplier's facility. The supplier will be notified 48 hours in advance of the date if a witness inspection is to be conducted.

**POQC-13:**

**GOVERNMENT SOURCE INSPECTION:**

Government Source Inspection is required prior to shipment from your plant. Upon receipt of this Purchase Order, promptly notify the Government Representative who normally services your plant so that appropriate planning for Government inspection can be accomplished.

**POQC-14:**

**CANYON AND/OR CANYON'S CUSTOMER SURVEY/AUDIT:**

Canyon and/or Canyon's customer reserves the right to conduct a Survey/Audit of the supplier's facility and the supplier's sub-tier suppliers to determine their capability to comply with the requirements of the Purchase Order. The supplier will be notified 48 hours in advance of the date that a Survey/Audit will occur. Compliance and/or verification can include 1) Review of objective evidence of conformation of the processes, products and services, 2) On-site audit and/or inspection, review of required documentation, 3) Review of production part approval process data, 4) review of delegations of product verification.

**POQC-15:**

**SUPPLIER SUB-TIER PROCESS CONTROL:**

This clause mandates that all requirements, which are invoked or applied to Canyon's customer purchasing document, including this clause, shall be flowed down to the Canyon's suppliers and the supplier's sub-tier suppliers.



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**POQC-16:**

**MEASURING AND TEST EQUIPMENT/CALIBRATION SYSTEM:**

The supplier shall establish and maintain documented procedures to control, calibrate and maintain inspection, measurement and test equipment (including test software and tooling), used by the supplier to demonstrate the conformance of product to the specified requirements, in accordance with ANSI Z540-1 (formerly MIL-STD-45662) or ISO 10012-1.

**POQC-17:**

**PACKAGING/SHIPMENT:**

All items delivered on this order must be adequately preserved, packaged and contained to prevent deterioration and damage during shipment. The shipping method should ensure safe arrival at destination in accordance with good commercial practices, unless special packaging and shipping instructions are specified in this Purchase Order and/or drawing(s)/specification(s).

**Note: The use of newsprint for packaging is prohibited.**

**POQC-18:**

**PROHIBITED MATERIALS:**

The use of pure unalloyed tin is prohibited in the construction and surface finish of space hardware. Parts with tin alloys containing less than 97% tin are acceptable. The use of cadmium or zinc is prohibited in the construction and surface finish of space hardware. Parts containing cadmium alloys or zinc alloys (e.g. brass) must be completely overplated with an approved metal. Any exceptions to these prohibitions must be approved in advance by Canyon Composites, Inc. in writing.

**POQC-19:**

**ACQUISITION/USE OF NON-DOMESTIC SPECIALTY METAL:**

The seller agrees not to incorporate into any articles to be delivered under this purchase order, specialty metals not melted in the United States, its possessions, Puerto Rico, or a qualifying country. Specialty metals are defined in Defense Federal Acquisition Regulation Supplement (DFARS 252.225-7014 and its Alternate 1). Qualifying countries are listed in DFARS 225.872-1(a).

In addition to the DFARS provisions referenced above, all articles containing specialty metals must conform to all applicable contract requirements (e.g., specification(s), statement of work, drawings, etc.).

**SELLER FURNISHED MATERIAL CERTIFICATION FOR SPECIALTY METALS ONLY**

Seller shall document and maintain material certification containing the following:

- 1) Description of the material used in the manufacture of the end-item.
- 2) Material specifications.
- 3) Lot, heat or batch number identification.
- 4) Source of procurement.
- 5) Origin of material.
- 6) Name and location of Melting facility.
- 7) Name and Location of mill.
- 8) Mill certification.
- 9) All other requirements as specified in the applicable raw material specification including chemical and physical analysis.

**Note: Seller shall retain certification for a period of no less than seven (7) years after final payment.**

**Note: Specialty Metals are defined in the Defense Federal Acquisition Regulation Supplement (DFARS) clause 252.225-7014, Preference for Domestic Specialty Metals, and its Alternate I.**

**POQC-20:**

**FOREIGN OBJECT DEBRIS (FOD) PREVENTION PROGRAM:**

The supplier shall establish and maintain an effective Foreign Object Debris (FOD) prevention program to eliminate FOD in items delivered to Canyon. Industry specification NAS412 may be used as a guideline in complying with this requirement. The written procedures/policies developed by the supplier shall be subject to Canyon review and audit.

**POQC-21:**

**PART/MATERIAL/PROCESS SUBSTITUTIONS PROHIBITED:**

Part, Material, and/or Process substitutions for items stated in this purchase order are not allowed. Any deviations from Canyon and/or Canyon's customers drawing, specifications, and purchase order must be authorized by Canyon and/or Canyon's customers. The supplier shall ensure that these requirements are flowed down through the supply chains that support the items on this purchase order.

**POQC-22:**

**RIGHT OF ACCESS:**



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Right of Access by Canyon, Canyon's customer, and/or regulatory authorities to all facilities involved in this purchase order and to all applicable records.

**POQC-23:**  
**RECORDS RETENTION:**

Seller's records, to demonstrate conformance, shall be on file and available for review by Buyer, Buyer's Customers or regulatory Agencies upon request. Records shall be retained for a minimum of seven (7) years from delivery of product.

**POQC-24:**  
**CHANGES TO PROCESS**

Seller is required to notify Canyon to changes of product and/or processes, changes of seller's suppliers, changes of facilities and processing lines, and changes of primary manufacturing equipment for standard processes.

**POQC-25:**  
**CUSTOMER SPECIAL PROCESS FLOW-DOWN REQUIREMENTS (SPECIFIC)**

This clause mandates that certain processes must be performed by Customer Approved Suppliers/Processors (see customers Approved Supplier lists) and must be flowed-down to Canyon Composites' sub-tier suppliers on issued purchase orders.

Such requirements include: Boeing's Quality Code Q020 for use suppliers on Boeing's approved supplier list (D1-4426), H900 material substitution, and General Provisions (GP1).

**POQC-26:**  
**COUNTERFEIT MATERIAL AVOIDANCE PROCESS REQUIREMENTS:**

Seller shall provide products to Canyon Composites that meet the requirements of AS5553 as a guide "Fraudulent/Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition".

"Counterfeit Item" is defined to include, but is not limited to, (i) an item that is an illegal or unauthorized copy or substitute of an Original Equipment Manufacturer ("OEM") or Original Component Manufacturer ("OCM") item; (ii) an item that does not contain the proper external or internal materials or components required by the OEM or OCM or that is not constructed in accordance with OEM or OCM design, but is represented as such; (iii) an item or component thereof that is used, refurbished or reclaimed but the Seller represents as being a new item; (iv) an item that has not successfully passed all OEM or OCM required testing, verification, screening and quality control but that Seller represents as having met or passed such requirements; or (v) an item with a label or other marking intended, or reasonably likely, to mislead a reasonable person into believing a non-OEM or OCM item is a genuine OEM or OCM item when it is not.

**POQC-27:**  
**SPACEFLIGHT FASTENER REQUIREMENTS – NASA-STD-6008**

Seller shall assure all Spaceflight fasteners provided to Buyer under this purchase contract meet the requirements of NASA-STD-6008. Seller shall send Buyer's Authorized Representative a signed or stamped certification stating that delivered Spaceflight fasteners (installed and/or uninstalled) under this purchase contract comply with the stated requirements of NASA-STD-6008.

**POQC-28:**  
**FOD PREVENTION PROGRAM**

Seller is required to establish and maintain a FOD prevention program in accordance with D6-85622, "Foreign Object Debris/Foreign Object Damage (FOD). Copy of document may be requested from Canyon Composites Program Management.

**POQC-29:**  
**PROHIBITED MATERIALS**

The use of tin, zinc, and cadmium is prohibited as specified in the following subparagraphs. Any exceptions to these prohibitions shall be approved in advance in writing by Canyon Composites Program Management.

- a. Tin.  
The use of pure unalloyed tin is prohibited as a surface finish for space hardware, including the surface finish on components or parts used inside a hermetic cavity or encapsulated within an assembly. (For example, terminations on chip capacitors in hybrids shall not consist of pure



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tin; the potted portion of leads on devices that are encapsulated shall not be plated with pure tin.) Solder-dipped tin alloy finishes shall contain at least three percent lead or at least three and a half percent silver. All other tin and tin alloy finishes shall contain at least three percent lead.

b. Zinc.

The use of pure zinc is prohibited as a surface finish for space hardware. Unplated brass (an alloy containing copper and zinc as the main constituents) containing greater than 21 percent zinc is prohibited. Brass with greater than 21 percent zinc is acceptable if the brass is over-plated with a minimum of 50 micro inches of nickel, or 100 micro inches of either copper or gold. Unplated alloys other than brass that contain greater than 10 percent zinc are prohibited. Unplated alloys other than brass alloys that contain greater than 10 percent zinc are acceptable if they are over-plated with a minimum of 50 micro inches of nickel, or 100 micro inches of either copper or gold. Zinc or alloys containing zinc that are sealed within a hermetic cavity are acceptable.

c. Cadmium.

The use of pure cadmium is prohibited as a surface finish for space hardware. Unplated alloys containing greater than five percent cadmium are prohibited. Alloys containing greater than five percent cadmium are acceptable if they are over-plated with a minimum of 50 micro inches of nickel, or 100 micro inches of either copper or gold. Cadmium or alloys containing cadmium that are sealed within a hermetic cavity are acceptable.

**POQC-30:**

**DPD/MBD-BOEING D651991 COMPLIANCE**

The Seller must complete a DPD/MBD Survey or have a completed DPD/MBD on file with Canyon Composites Quality Department prior to the receipt of Model Files. Seller must also comply to the requirements of the latest revision of Boeing's D6-51991 document.

**POQC-31:**

**SUPPLIER INTERNAL COMMUNICATION**

The Supplier shall insure that their employees are; 1) Aware of their contribution to product or service conformity, B) Aware of their contribution to product safety, C) Understand the importance of ethical behavior.

**POQC-32:**

**COMPETENCE**

The Supplier shall ensure that persons performing processes, tests, quality functions, inspection and other production activities, are competent and qualified. Records shall support qualification and competency and shall be made available upon request.

Canyon Composites monitors its suppliers, to support our customers. On-Time-Delivery performance, Quality performance will be monitored, unsatisfactory performance will require improvement efforts, continued unsatisfactory performance may lead to removal from Canyon Composites Approved Supplier List (ASL). Suppliers are to notify Canyon Composites Quality department of any loss of accreditation and/or approvals within (30) days of event.

**PURCHASE ORDER QUALITY CLAUSE ATTACHMENT**

**CUSTOMER LINKS:**

<http://www.boeing.com/suppliers/compliance/cclauses/cclauses.html>

<http://www.raytheon.com/connections/supplier/terms/index.html>

<http://www.orbital.com/Suppliers/QualityProvisions/LSG/>