

- Q1 Government Source Inspection:** Government inspection is required prior to shipment from your plant. Upon receipt of this order, promptly notify the government representative who normally services your plant so that appropriate planning for government inspection can be accomplished. Seller shall provide evidence of government source inspection with shipment. Upon receipt of this order, promptly furnish a copy to the government representative, who normally services your plant, or if none, to the nearest Army, Navy, Air Force or Defense Supply Agency inspection office. In the event the representative or office cannot be located, Buyer Purchasing Department should be notified immediately.
- Q2 Government Source Surveillance:** During performance of this order, Seller's Quality Control or inspection system and manufacturing processes are subject to review, verification, and inspection by authorized government representatives.
- Q3 Source Inspection by ACE's Customer:** The work on this order is subject to inspection and or test by the Buyer's Customer Personnel. Buyer shall be notified 48 hours in advance of the time articles, processes, or tests are ready for inspection.
- Q4 Buyer Source Inspection:** Articles to be produced in fulfillment of this purchase order require buyer source inspection by Buyer's Quality Assurance Representative **prior to delivery**. In order to schedule source inspection, the seller shall notify Buyer's Purchasing Department at least 48 hours in advance of the article(s) being available for inspection. Source Inspection does not constitute final acceptance by buyer, nor does it relieve the seller of the responsibility for compliance with all the requirements of the purchase order. The seller shall provide facilities and assistance as may be reasonably required by buyer personnel in the performance of their Inspections.
- Q5 First Article Inspection At Seller's Facility:** This order is subject to first article acceptance at the seller's facility on one sample article prior to delivery and/or acceptance of the balance of the order. Delivery or production of articles, other than the sample, prior to first article acceptance by buyer, shall be at the sole risk of the seller. The sample article submitted shall be representative in all aspects of the articles to be delivered on the remainder of those delineated on buyer's furnished drawing, on this or future orders, subsequent to first article acceptance. Source inspection shall be requested 48 hours in advance.
- Q6 First Article Inspection Required :** This order is subject to first article acceptance of one sample article prior to delivery and or acceptance of the balance of the order. The sample article submitted shall be representative in all aspects of the articles to be delivered on the remainder of this order. The seller agrees to inform buyer of any changes affecting parameters delineated on buyer's furnished drawing on this or future order, subsequent to first article acceptance.
- Q7 Quality Program Requirements:** The seller shall have developed and maintain a quality program in accordance with the following levels:
- Aerospace Standards; AS9100 for Manufacturing and Processing; Nadcap Accreditation to AC7004 (QMS) or Higher in support of Nadcap Accreditation for Controlled Processing; ISO9001; ISO17025 for Test Laboratories, Calibration Laboratories
 - MIL-Q-9858 including a measuring instrument calibration system in accordance with MIL-STD-45662. This Quality program shall be verifiable by buyer surveillance
- Q8 Inspection System Requirements:** The seller shall have developed and maintain an inspection system in accordance with MIL-I-45208 including a measuring instrument calibration system in accordance with MIL-STD-45662. This inspection system shall be verifiable by buyer surveillance.
- Q9 System Requirement:** The seller shall establish and maintain an organized system of material and quality control, which will ensure that only articles which conform to all requirements of the purchase order, are delivered to buyer.
- Q10 Raw Material Certification:** Three legible copies of the material certification as furnished by the raw material supplier shall accompany each shipment. Material certifications must agree in all respects with the raw material requirements of their applicable specifications.
- Q11 Chemical Test Reports:** Materials furnished in fulfillment of this purchase order must be accompanied by three legible copies of certified test reports of the chemical properties of the material. Producer or material manufacturer (Mill) test data is preferred. Certified test data from an independent laboratory is acceptable.
- Q12 Physical Test Reports:** Materials furnished in fulfillment of the purchase order must be accompanied by three legible copies of certified test reports of the physical properties of the material. Producer or material manufacturer (Mill) test data is preferred. Certified test data from an independent laboratory is acceptable.
- Q13 Material Traceability:** Each shipment shall be accompanied by three legible copies of the material certification, which identifies the manufacturer, the material furnished. Certifications shall also include the heat number, heat code, heat lot number or melt number, which shall be traceable to the raw material manufacturer.
- Q14 Raw Material Origin:** Raw materials (sheet, plate, bar, etc.) furnished to buyer, or raw material procured by the seller for the production or fabrication of articles for sale to buyer, shall be of **domestic origin** only. Raw materials of foreign origin shall not be acceptable, unless written approval of acceptability is granted by buyer prior to shipment of the material or article to buyer.
- Q15 Serialization:** Each item furnished on this purchase order will be identified with a non-recurring serial number. In cases where the size of the item prohibits identification, the serial number will be marked on an identification tag or label and securely attached to each item.
- Q16 Lot Number Identification for ACE Furnished Material:** Seller shall maintain the buyer established "material lot number" identification from receipt of raw material through delivery of finished articles. Finished articles shall be identified with the applicable lot number, using an ink marker (for formed parts), tag identification (machined, pierced blanked and/or anodized parts), or bag and tag identification (parts too small for application of lot number identification). Additionally, seller shall include on their certification of conformance, the raw material number(s), from which the articles were produced.
- Q17 Special Process Certification:** Three legible copies of the certification shall accompany each shipment for special processes used under the terms of this purchase order. Special processes include, but are not limited to: Heat Treating, Welding, Magnetic Particle Inspection, Penetrant Inspection, and Ultrasonic Inspection, Brazing, Soldering and Plating. The certifications shall list all applicable specifications, including revision letter or number to which the process conforms, the type or class (if applicable), the date, buyer's purchase order number, buyer's part number and quantity, as a minimum.
- Q18 Approved Sources Required:** The seller shall contact buyer's Quality Assurance or Purchasing Department to obtain the name and location of the approved source for the material or process required by the drawing, specification or purchase order Instructions. Failure to comply with this requirement, shall be cause for rejection of the material or parts supplied and disapproval of the seller.
- Q19 Identification of Shelf Life Material:** The seller shall identify each item, package or container of shelf-life material with the cure date, expiration date. Etc. and special storage and handling instructions, in addition to the normal identification requirements, such as name, part or code number, specification number, type size and quantity. This identification, including special handling conditions, shall be recorded on certification and shipping documents for the material.
- Q20 Functional Test Reports:** Three legible copies of actual test results shall accompany each shipment, identified with test parameters and items submitted. These reports must include the signature of the responsible quality representative of the agency performing the tests.
- Q21 MRB Authority Exclusion:** Buyer's customer **has not** granted MRB authority for this program to buyer and therefore, deviations from the requirements of this purchase order will not be acceptable.
- Q22 Certification of Compliance:** The seller shall include with each shipment three legible copies of a certifying statement, which attests to the seller's compliance with all requirements of the purchase order. The certificate of compliance shall be signed by a responsible quality representative of the seller. The required statement shall constitute certification by the seller that the articles are in full compliance with all purchase order requirements and that the seller holds available for review, documented evidence of such compliance. Records shall be retained by seller for a minimum of ten (10) years and shall be available to the Buyer for examination at any time during that period.
- As a minimum, the certificate of compliance shall contain the following Information:
- Buyer's purchase order number.
 - Buyer part numbers and drawing revision letter.
 - Seller's shipping document number.
 - Quantity of articles.
 - Serial or lot numbers of articles, when applicable.
 - Certification of compliance statement.
- Shipments received without required certifications, will be rejected prior to inspection and returned at the seller's expense.
- Q23 Corrective Action:** In response to buyer initiated corrective action requests, the seller shall advise the buyer of action taken to correct the reported discrepancies on corrective action request form furnished by buyer. Such requests require timely responses and must include the following information:
- Corrective Action
 - Analysis of the cause of the problem.
 - Statement of the action taken to preclude its recurrence.
 - Effectivity of such action.
- Corrective action required on articles that have been inspected at the seller's facility by the government shall be coordinated with the cognizant government representative.
- Q24 Records:** Seller shall maintain records of manufacturing and traceability of material used in the fabrication of the parts, sub-assemblies or assemblies produced in fulfillment of this purchase order. These records shall be maintained by the seller, for the period of seven (7) years after completion of the purchase order and be made available for review by authorized buyer personnel, upon request.
- Q25 Packing, Packaging and Preservation:** The seller shall utilize appropriate packing, packaging and preservation methods and materials to ensure articles are received at buyer in an undamaged and acceptable condition.
- Q26 Manned Space Flight Requirements:** For use in manned space flight, materials, manufacturing, and workmanship of highest quality standards are essential to astronaut safety. If you are able to supply the desired items with a quality which is higher than that of the items specified or proposed, you are requested to bring this fact to the immediate attention of the purchaser.
- Q27 SPC Flow-Down Requirements:** Seller shall show proof of their ability to provide statistical evidence of variance for KEY characteristics. Seller to certify that they have a quality system capable of meeting Boeing's D1-9000 AQS or similar quality requirements. Seller shall furnish copies of all control plans and charts, measurement data, and other related documentation gathered during their process on ACE Clearwater Enterprises' hardware. ACE Clearwater Enterprises reserves the right to determine and verify the quality of the work at any point of manufacture, in your plant and reserve the same rights on behalf of our customer.
- Q28 Subcontracting of Work:** Seller is prohibited from subcontracting any portion of the work to be performed as specified in this purchase order, unless otherwise authorized in writing by the buyer.
- Q29 Customer Access:** "Access to your facility (documents personnel, equipment and facilities) shall be made available to ACE Clearwater Enterprises, its customers and regulatory agencies, to determine and verify the quality of work, records and data."
- Q30 Quality Program Requirements:** The seller shall have developed and maintained a quality program in accordance with ISO 9001:2008, including a measuring instrument calibration system in accordance with MIL-STD-45662 or ANSI Z540.1 or ISO 10012-1. This quality program shall be verifiable by buyer surveillance.

Q31 Quality System Changes & Relocation: Seller shall notify Buyer, in writing, within ten (10) days of any:

- Change in its quality system status resulting in the loss of 3rd party registrar's certification status, or
- Adverse action taken by Seller's customer, the Government, the Federal Aviation Agency (FAA), or the Civil Aviation Agency (CAA), or
- Change in Seller's quality organization, process or procedures that affect conformity of any item.

Seller shall also notify Buyer, in writing, at least 90 days in advance of any sale, relocation, or transfer of Seller's manufacturing operations.

Q32 Control and Processing Nonconforming Material and Corrective Action:

- Seller shall implement and maintain a documented quality system that provides for identification, documentation, and disposition of nonconforming material.
- Seller shall ensure effective corrective and preventive action is taken. Seller's quality management system shall ensure that nonconforming material is not used for production purposes.
- Seller shall maintain records of all nonconforming material, dispositions, assignable causes, corrective and preventive actions, and effectiveness of corrective actions for the period specified in this PO (Record Retention 7 Years).
- Seller shall evaluate each nonconformance for its potential to exist in previously produced or delivered Items, or Items in transit to Buyer. If a nonconformance exists, Seller shall notify Buyer, in writing, within 24 hours for issues impacting flight safety or for Items in transit to Buyer; and, in writing, within 5 working days for all other issues.
- Seller shall provide effective corrective and preventive action upon request by Buyer. When requested by Buyer, Seller shall provide trend data and findings. Seller shall identify true root cause findings, corrective and preventive action(s) to preclude recurrence by utilizing tools such as cause mapping, cause and effect analysis, 5 why's etc.
- Seller shall assess all Buyer-identified nonconformances, whether or not Item(s) was/were returned to Seller, and take appropriate actions to ensure causes of nonconformance are corrected.

Q33 Foreign Object Damage/Debris Control – NAS412:

- Seller shall maintain a FOD prevention program in accordance with National Aerospace Standard NAS-412, Foreign Object Damage/Foreign Object Debris (FOD) Prevention.
- Prior to closing inaccessible or obscured areas and compartments during assembly, Seller shall inspect for foreign objects/materials and ensure no FOD barriers remain embedded, e.g. embedded protective plugs. Seller shall ensure tooling, jigs, fixtures, and test or handling equipment are maintained in a state of cleanliness and repair sufficient to prevent FOD.
- By delivering Items to Buyer, Seller shall be deemed to have certified to Buyer that such Items are free from any foreign materials that could result in FOD.

Q34 Counterfeit Part Avoidance: A counterfeit part is any item misrepresented as having been designed and/or produced under an approved system or other acceptable method. The term also includes parts that have reached a design life limit or have been damaged beyond possible repair, but is altered and misrepresented as acceptable. Suppliers shall assure safe, reliable product and mitigate the risk of counterfeit parts entering the system. If the supplier becomes aware of any item that have shipped to ACE Clearwater that has become suspect, the supplier must immediately notify ACE Clearwater's Quality Department.

- The supplier **shall** maintain a Material Authenticity program that has as its goal the avoidance, detection, mitigation and disposition of counterfeit parts.
- The Supplier **shall** not misrepresent used or reclaimed parts as new.
- Supplier **shall** comply with original manufacturer's handling, storage and shipping procedures.
- Supplier **shall** provide to the Buyer all necessary certificates of conformance and acquisition traceability (CoC/T) to the OEM/OCM.

- Supplier **shall** maintain objective evidence that the chain of custody has been maintained from original manufacturing of the part to the delivery of part to Buyers' receiving dock.

Q35 Lockheed Martin QCS-001 Purchase Order Flow-Down Requirements: This quality clause applies when Lockheed Martin End Use or QCS-001 Process Codes are called out on the purchase order.

- Process Source's unique LM Aero identification number ("vendor code") and all LM Aero unique "process codes" for each Buyer-controlled process to be performed.
- Processing to be accomplished in performance of this purchase order is directly related to a Lockheed Martin Aeronautics Company purchase order and must be accomplished in accordance with process specification(s) on this purchase order and Lockheed Martin Aeronautics Company Appendix QJ.
- Sub-tier Process Source must file and maintain a copy of all purchase orders containing the above statement and make these available for review by Buyer, upon request.
- Sub-tier Process Source must submit a Certificate of Conformance ("C of C") with a unique certification number in accordance with paragraph F "Certificate of Conformance."
- Sub-tier Process Source to identify specification(s) title, specific revision level(s) and drawing(s) requirement(s) to be performed by a QCS-001 source.

Q36 Lockheed Martin QA022-01, Seller Quality Requirements: This quality clause applies when Lockheed Martin End Use or QCS-001 Process Codes are called out on the purchase order.

- Seller shall comply with the requirements of Buyer's "Seller Quality Requirements" outlined in QA022-01 (latest revision). Copies of this document may be found on Lockheed Martin Supplier Net or contact the buyer. In the event of conflicting requirement(s) between QA022-01 and a specified requirement within the contract, the specified requirement(s) will take precedence. QA022-01 may be accessed at:
- <http://www.lockheedmartin.com/us/suppliers/bu-info/aeronautics/sustainment-services.html>