

QUALITY ASSURANCE PROVISIONS

- Q1 Right to Entry** – Equitable Engineering Company and/or our customer(s) are afforded the right to verify product, process and/or records on your site to ensure conformance to specified requirements. Verification by Equitable Engineering Company and/or our customer(s) shall not absolve the subcontractor of the responsibility to provide acceptable product, nor shall it preclude subsequent rejection by Equitable Engineering Company.
- Q2 Traceability** – The subcontractor shall maintain controls to ensure capability of tracing product back to its production lot and material used.
- Q3 Changes to the Company** – Equitable Engineering shall be notified in writing of any changes that affect quality such as company ownership, senior management, manufacturing process. Any changes in quality system registration.
- Q4 Nonconforming Product** – Nonconforming product must be segregated and tagged with discrepancy identified prior to shipment and Equitable Engineering Company notified.
- Q5 Final Acceptance** – All products on the purchase order are subject to final inspection and acceptance at Equitable Engineering.
- Q6 Waivers** – All requests for waivers shall be documented and submitted to Equitable Engineering for approval prior to shipment.
- Q7 Subcontractor Flow Down** – Subcontractors are required to flow down to sub-tier suppliers the applicable requirements of the Equitable Engineering Company purchasing documents, including key characteristics where required.
- Q8 Equitable Engineering Inspection, Measuring and Test Equipment** – Are shipped in calibrated condition. If calibration expires while gages are in your care please contact Equitable Engineering immediately to arrange for calibration. Subcontractors assume responsibility for all equipment owned by Equitable Engineering. If equipment is damaged while in subcontractors care Equitable shall be notified immediately. All equipment supplied must be returned upon completion of purchase order.
- Q9 For Use in Manned Space Flight** – Materials, manufacturing and workmanship of the highest quality standards are essential in order to ensure Astronauts safety. If supplier is able to supply the desired items with a quality which is higher than that of the items specified or proposed the supplier is requested to bring this fact to the attention of Equitable Engineering.
- Q10 Flight Safety** – FLIGHT CRITICAL HARDWARE - Handle with care.
- Q11 Handling, Cleaning and Packaging** – Prior to shipment to Equitable Engineering Company all product shall be cleaned so as to be free of all foreign substances or residue from process or handling product shall be returned in the same shipping container as received. Product shall be packaged using commercially acceptable packaging and in such a way that will prevent damage.
- Q12 Corrective Action** – In the case of nonconformance's subcontractors may be asked to complete corrective action failure to comply with this request may affect further orders placed with you.
- Q13 Special Process / Critical Process** – Equitable Engineering Company approved subcontractor required.
- Q14 Records** – Records must be maintained in a legible and reproducible manner. Records are subject to review by Equitable Engineering Company and/or our customers.
- Records shall be maintained for a minimum of _____ years after the final delivery of this order.
- Q15 Quality Assurance System** – AS9100 / ISO9000 / MIL-1-45208A is required.
- Q16 NADCAP** - Certification is required.
- Q17 Calibration System Requirements** – ISO10012-1 / MIL-STD-45662A is required.
- Q18 Certificate of Conformance** – The subcontractor is required to furnish a legible certificate of conformance containing at a minimum Equitable Engineering Company work order number, purchase order number, part number with revision, specification with revision and date, description of work performed, results, operation number with revision and date if applicable, serial number(s) if applicable, quantity represented, and signature of authorized company quality representative. Incomplete or inadequate certifications are cause for rejection.

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- Q19 Serialization** – Serial numbers shall be maintained by the subcontractor per instructions on operation drawing.
- Q20 First Article Inspection** – Submittals of First Article Inspection shall be done in accordance with the requirements of AS9102. First article parts shall be identified as such by tagging part or labeling of the bag part is contained in. Equitable Engineering Company requires approval before additional product may be shipped. First article must be resubmitted if there is a revision change or part has been out of production for a period longer than two years.
- Q21 First Piece Inspection** – Subcontractor is required to submit a first piece to Equitable Engineering for approval. An inspection sheet with the actual results of the dimension recorded, required dimensions, and what type of inspection, measuring, or test equipment has been used shall be noted.
- Q22 First Piece Inspection** – Equitable Engineering Company will perform a First Pieces Inspection on this lot of parts. Subcontractor is required to submit a first piece to Equitable Engineering along with a inspection sheet with the actual results of the dimension recorded, required dimensions, and what type of inspection, measuring, or test equipment has been used shall be noted.
- Q23 Frozen / Fixed Process** – This is a frozen / Fixed process and cannot be deviated from without written approval from Equitable Engineering Company. If applicable the Frozen / Fixed Process number must be noted on your certificate of conformance. See Certificate of Conformance Quality Provisions Q18.
- Q24 Source Inspection** – Is required prior to shipment from your plant. Please contact Equitable Engineering Quality Assurance department to arrange for source inspection.
- Q25 Government Source Inspection (GSI)** – is required prior to shipment from your plant, upon receipt of your purchase order, promptly furnish a copy of the purchase order to the Government inspector who normally services your plant. Evidence of GSI must be indicated on all shipping documents
- Q26 Heat Treat** – Heat treat samples part or slug of the same material from the heat treat source is to be forwarded to Equitable Engineering Company for each heat treat load on all Carburized and hardened parts. One (1) sample for each load of fifty (50) pieces or less and one (1) additional sample for each additional fifty (50) pieces per load up to five (5) samples maximum. **In most cases Equitable Engineering Company will send a part for this purpose this part will be tagged to identify it as such and MUST be used.**
- Q27 Independent Lab Certification For Heat Treatment** – The initial shipment of each part number shall include a test report form a NADCAP approved independent lab certifying conformance to the latest applicable specification numbers as required by the purchase order, process heat and/or drawing. The material that is test by the laboratory must be processed with the lot and must be representative of the lot. This test report must be traceable to the heat treatment subcontractor's certificate of conformance.
- Q28 Material Safety Data Sheet (MSDS)** – Is required when shipment
- Q29 Deterioration / Rust Prevention** – A protroleum based preservative such as TACTAYL 900 or equivalent. Shall be used to prevent deterioration
- Q30 Calibration** – The calibration tolerance for the equipment is to be to the original manufactures recommendations.. Calibration Traceability is to be to the National Institute of Standards and Technology. The subcontract is to supply Equitable Engineering Company with a calibration certificate. The certificate shall contain the date of the calibration, identification number of the instrument being calibrated, the environmental conditions of the laboratory and the name of the calibration technician, as received and as returned condition of the equipment being calibrated. The subcontractor is to label calibrated equipment with the calibration date, the date of the due date of the next calibration, and the initials of the calibration technician.
- Q31 Inspection Reports** – Are required with each shipment.
- Q32 Sample Inspection** – Requirements are per ANSI / ASQC Z1.4. Major characteristic are at an A.Q.L of .65, minor characteristics at an A.Q.L of 4.0, both modified to a zero acceptance level.
- Q33 Raw Material** – Certification is required to include the chemical and physical properties reflecting numerical values for all test required by applicable specification the material designation and mill source.

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- Q34 Forging Identification** – Each forging or part must be identified with a mill heat number or code and foundry identification. The subcontractor shall segregate and identify materials to heat/lot number when mixed production lots occur.
- Q35 Equitable Traceability** – If parts are received as tagged or identified with Traceability controls these shall not be removed at any point in process. The Traceability must be maintained through out the entire life of the part trough all stages of manufacture. **If tagging is not appropriate for performing work Equitable Engineering must be contacted to discuss and agree upon alterative methods of Traceability.**
- Q36 Domestic Material** – Preference for Domestic Material per DFAR 252.225-7014 Alternate 1 applies to this purchase order. If clarification is required or if there is difficulty in acquiring domestic material as required by this DFAR please contact your Equitable Buyer.