



Rev. B

Quality Clauses - Flow down of Customer Requirements to Suppliers

- 1. Calibration System:** Suppliers' calibration system shall meet the requirements of: ISO 9001, AS9100, ANSI-Z540-1 or MIL-STD-45662.
- 2. Quality System:** The Supplier shall maintain a quality/ inspection system conforming to the requirements of ISO 9000 or Mil-I-45208 and (at a minimum) must include: Receiving, First Article, In-Process and Final inspections including Inspection and Test Records supplied to X5 Manufacturing. Supplier will show adequate control of quality throughout the performance of this Purchase Order including flow down of appropriate quality requirements to their sub-tier supplier contracts for fabrication or special processing.
- 3. First Article:** A first article inspection report is required for all first time orders of all part numbers, and every 2 years thereafter. The first article report must consist of actual dimensional data from all drawing dimensions from the first acceptable part manufactured. The first article report is to be identified with Part Number, Revision, PO number, supplier name, Date and signed by a Quality authority. The first article part, associated first article report and all certifications for material and processes are to accompany the first shipment to X5. In addition, a first article will also be required for every part number ordered after a supplier facility move, change in ownership, change in the process used to manufacture the parts or a new revision. The shipment will not be accepted at X5 without a first article report unless otherwise specified.
- 4. Part Inspection:** The supplier is responsible for verifying compliance to all requirements specified on this order. Evidence of any non-compliance shall be cause for rejection of the entire lot. Any lot so rejected, may be returned to the Supplier at their expense for re-inspection, reprocessing or replacement as directed by X5 Purchasing.
- 5. Certification of Conformance:** (C of C) attesting to the conformance of material, (which shall include chemical and/or physical reports with "actual" or "typical" as contractually required results of tests conducted on all materials shipped, verifying conformance to any specifications referenced on drawings and/or purchase orders) outside services performed, hardware, machining / manufacturing, etc. will be shipped with every lot. The C of C shall be signed by an authorized representative of the Supplier and shall confirm that the order was manufactured to PO requirements.
- 6. Control of Special Processes:** In addition to the requirements of clause 4, both supplier and any subcontractor(s) used shall be an X5 Manufacturing and/or Customer approved source for Special Processes. These include operations subject to process controls such as: Coating, joining, heat treating, cleaning, non-destructive test, painting, etc. The supplier shall be approved as per above to perform specific required Special Processes, or use Special Process vendors acceptable to X5 Manufacturing and X5 Manufacturing customer. A list of such vendors will be supplied upon request.
- 7. Notification of Change:** The Supplier must notify X5 in writing of any changes in name, address, or process definition. Any process changes that may affect items on this purchase order will require X5 written approval from the QA Manager or equivalent.
- 8. Right to Verify:** X5 Manufacturing and its customer shall be afforded the right to verify at the Suppliers premises that the subcontracted product conforms to specified requirements,
- 9. Right of Entry:** The Supplier shall include provisions in the subcontracts to allow X5, X5 Customer, and Regulatory agencies Right of Entry to any place necessary to determine and verify the quality of contracted work, records and material. Note: Delegation of supplier verification to subcontractor is not practiced at X5 Manufacturing.
- 10. Certification of Calibration:** Certification of Calibration attesting to the accuracy of the items procured on this Purchase Order shall (if specifically requested) be supplied with each shipment. This certification must contain all the test parameters necessary to demonstrate conformance to the standard and manufactures specifications and shall be traceable to NIST.



11. **Certifications:** Certification test data shall be traceable to the organization performing the testing, special processing and/or inspection(s) requested via X5 Manufacturing Purchase Order. All factual information shall be included to demonstrate conformance of specification and/or Purchase Order requirements.
12. **Report of Non-Conformities or Inconsistencies with Product and/or Purchase Orders:** The supplier shall review the Purchase Order and product manufacturing, processing, and/or testing requirements prior to its initiation. If errors or inconsistencies are noted with the P.O., Part and or other document referenced by the Purchase Order the supplier must immediately notify X5 Manufacturing or its acting delegation. Suppliers proceeding with work without written concurrence does so at his own risk. Product will not be accepted by X5 Manufacturing Quality Assurance Department until the Purchase Order and all documentation referenced there on properly describe the product delivered.
13. **Corrective Action Request:** When a Quality Problem exists, X5 Manufacturing shall request Corrective Action from the Supplier. Such request require timely responses and should include the following information: Rejection Report reference, Description of the Non-Conformance, Root Cause (analysis of the cause of the discrepancy) and the Corrective Action Taken to prevent recurrence including effectivity date.
14. **Identification-Limited shelf life:** Materials with limited shelf life (epoxy, paint, adhesives, etc.) shall indicate the date of manufacture, lot number, shelf life and applicable specification on the container. Time lapse "between cure or manufacturing date and date of scheduled receipt shall be consistent with applicable specification or Purchase Order requirements. At a minimum, product will not be accepted at X5 without at least ½ the shelf life remaining.
15. **Record Retention:** Suppliers shall maintain all records, certifications, inspection reports, test reports and traceability documents that indicate conformity to shipped product for a period of 7 years.
16. **Prohibited Practices:** The Vendor/supplier shall not make any unauthorized repairs by any means without X5 Manufacturing or X5 Manufacturing Customers approval.
17. **Prohibited Material Uses:** Parts supplied on this Purchase Order shall not be exposed to mercury or mercury compounds and certifications will indicate, "have not been exposed to functional mercury or mercury compounds".
18. **Preference for Domestic Specialty Metals:** All purchase orders which include a prime contract number require compliance to DFAR 252.225-7014. Suppliers shall provide evidence of compliance, including flow down to all sub-tier suppliers, with all shipments.
19. **Weld Rod Requirements:** Weld rod require material certifications by heat lot number, to include actual values which tie to the heat lot delivered. Weld rod may be identified either by stamping or flagging the end with the material type, heat lot, quantity, and PO number.
20. **Material Review Authority:** Authority for acceptance of defective supplier product is retained by X5 manufacturing. Any supplier requesting to ship discrepant hardware must receive written approval from, at a minimum, the X5 Quality Manager. If authority is granted to ship discrepant hardware, Supplier shall include a copy of the X5 approval with the shipment.
21. **Employment:** All suppliers are required to comply with the Equal Employment Opportunity requirements of FAR 52.222-22