

Quality Codes and Clauses Talladega Operations

Business Partner Notice

The following quality codes and requirements become an integral part of the purchase order to the extent specified and supplement existing terms and conditions of the purchase order. Absence of requirements on a purchase order does not relieve responsibility of the supplier from complying fully with applicable specifications and/or drawings. Failure to comply with these requirements may adversely affect the supplier quality rating, disqualification, and/or result in the return of the complete shipment at the supplier's cost. Herein "Seller" pertains to supplier and "Buyer" to IEI.

Quality Codes & Requirements

QA Quality Requirements

- A. The Seller shall provide for the review of the IEI purchase order to delineate all contractual requirements. Notification to IEI of changes to Seller processes that may affect the quality of the product is mandatory for approval.
- B. The seller shall provide a Quality System (guidance ISO 9001 & AS9100 latest revisions) that assures the materials supplied under this purchase order meet the requirements of the purchase order and any referenced or attached specifications or drawings. This system shall also provide for control of all Measuring and Test Equipment, used for material acceptance, and periodic calibration traceable to National Institute of Standards and Technology (NIST) or equivalent international standard. The requirements contained herein are in addition to such other inspection or quality control requirements, which may be incorporated in this purchase order through attachment of specifications, drawings, statements of work, etc.
- C. Seller shall establish and maintain an inspection system that provides for receiving inspection, and manufacturing acceptance inspections and tests needed to assure that materials delivered by Seller are in strict compliance with all contract / purchase order requirements. The Seller's inspection system shall provide assurance of product conformance for both materials produced at his facility and those purchased from subcontractors.
- D. Seller shall provide for the safety and convenience of Buyer and/or Buyer's customer, access and assistance, without additional cost, to any and all areas, where work is being or is scheduled to be performed under this Purchase Order. Buyer and or Buyer's customer may perform in-process inspection, product audits, and system surveillance at Seller's facilities as part of verification of conformance to contract / purchase order.
- E. Seller's purchase orders shall clearly reflect and define all processing and nondestructive testing requirements including special procedures, inspections, tests and acceptance criteria as required by the Buyer's purchase order or attached specifications and drawings.
- F. Seller shall comply with the following requirements with respect to Buyer furnished material:
 1. Material furnished by the Buyer shall be handled and stored in accordance with applicable specifications and requirements with due regard for protecting the material from damage due to handling and exposure.
 2. Seller shall visually inspect such material for accountability and damage from shipment. Buyer shall be responsible for any nonconformance to requirements.
 3. With each delivery containing Buyer furnished material, Seller shall ensure the material used on this order includes material furnished by Buyer and no unauthorized substitutions have been made.
- G. Buyer may utilize sample inspection methods (ANSI Z1.4) for acceptance of shipments. If the sample is unacceptable, buyer reserves the right to return all or part of the lot for credit or replacement. C=0 principle applies at supplier and sub-tier facilities on applicable

material (one defect requires rejection of representative lot). A Nonconformance Report (NCR) will be generated and sent to the Seller with a timely corrective action response required back to the buyer.

- H. All work performed under this P.O. is subject to IEI's inspection and test. IEI's representative may elect either to perform inspection or test on a random basis or up to 100% inspection.
- I. Seller shall provide a Certificate of Conformance (CoC) to attest that all supplies presented conform in all respects to the specification(s), drawing(s) and orders relative thereto and that the supplies have been inspected and tested in accordance with the conditions and requirements of the applicable orders. This certification shall bear the signature of an authorized agent of the Seller. This statement of quality shall be in addition to any specific certifications required to be delivered with the shipment by specifications or other quality documents. All CoC's shall accompany the shipment.
- J. Records of manufacturing, inspection, and tests (OQE) shall be maintained and stored by Seller for a period of three years, unless otherwise specified, after completion or termination of this Purchase Order. The CoC's, final inspection/test results, and all objective evidence, which substantiates Seller's certifications, including certification for Buyer furnished material shall be retained on file at Seller's facility. When additional quality requirements so specify, appropriate data shall be provided with each shipment. This data shall be readily available for subsequent on-site review by Buyer. When requested by Buyer, Seller shall provide at no cost, legible photocopies of inspection/test results or substantiating objective evidence for any certification.
- K. Seller shall ensure work is accomplished in a manner preventing foreign objects or material in deliverable items. Seller shall maintain work areas and control tools, parts and materials in a manner sufficient to preclude the risk of foreign object damage (FOD) incidents. Seller shall document and investigate each FOD incident and ensure elimination of the root cause of each such incident. Prior to closing inaccessible or obscured areas during assembly, Seller shall inspect for foreign objects / materials. 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 Foreign Object Damage.
- L. Specialty Metals Clause - The purpose of this clause is to advise IEI suppliers of metal parts that it is necessary to comply with specialty metals requirements associated with Department of Defense contracts. The DFARS 252.225-7014 Clause, Preference for Specialty Metals, implements a portion of the Berry Amendment, a federal law (10 USC 2533a). It requires certain specialty metals (such as Steel, Titanium, Stainless Steel, or Zirconium) incorporated in articles delivered under Department of Defense contracts be melted in the United States or a qualifying country (or incorporated in an article from a qualifying country). Qualifying countries are listed in DFARS 225.872-1.
- M. Finished parts shall be adequately protected to prevent damage during handling and shipment. Parts shall be wrapped, bagged, or otherwise protected to prevent damage when packaged within a larger pack. Plated parts must be packaged to prevent tarnish and corrosion. The seller shall be responsible for determining the method of packaging to assure protection during transit. Seller shall assume responsibility for inadequate packing that result in damage physically and/or functionally.
- N. Electrostatic discharge (ESD) sensitive devices shall be handled, packaged and marked in accordance with the requirements of MIL-STD-1686. Tubes and rails used for packaging microelectronic devices shall be made from conductive materials per MIL-HDBK-263. Connectors shall be supplied with protective caps made from conductive material per MIL-HDBK-263.
- O. All electronic and electrical assemblies will be soldered per J-STD-001 (latest revision), unless otherwise approved by Buyer Quality. The seller shall flow this requirement to all sub-tier contractors as necessary.

- IC Incomplete Item**
Item is received not complete; not to drawing. Item may require additional work, i.e. plating, paint, etc.
- QAR Government Inspection at Incoming**
Indicates required notification by Receiving personnel to on-site DCMA QAR representative for inspection at initial receipt of material.
- CMM Incoming Computerized / Precision Measurement**
Item / material is required to be routed to Quality Assurance for additional measurement and / or tolerance inspection prior to acceptance.
- 5 Dimensional Test Data**
A copy of the seller's test report containing quantitative results of all dimensional measurements are required with each lot.
- 6 Functional Test Data**
A copy of the seller's final test report containing quantitative results of all electrical and/or functional tests are required with each lot.
- 7 Chemical & Physical Analysis**
A copy of the seller's test report containing quantitative results of chemical and/or physical analysis is required with each lot.
- 8 Material Safety Data Sheet (MSDS)**
The supplier shall attach an MSDS with every shipment, for each material.
- 11 First Article Inspection (FAI) (guidance in AS9102 latest revision)**
Seller is responsible, prior to delivery of the first production unit, to verify that a First Article Inspection has been accomplished on the particular part involved. A new FAI is required when changes are incorporated (delta only), or significant changes to the manufacturing process occurs. Manufacturing of the remaining lot without approval of the first unit is at the seller's risk. The seller shall perform this inspection. All part attributes shall be documented and the results submitted with the 1st shipment. The piece used for this inspection shall be uniquely identified. IEI Quality Assurance (QA) reserves the right to witness the FAI performance at the seller's facility. IEI QA shall be notified at least 7 working days prior to scheduled FAI task. IEI QA will return written notification if we wish to witness the FAI.
- 14 Source Inspection**
IEI inspection or test is required prior to shipment from seller's plant. IEI's representative may elect either to perform/witness inspection or test on a random basis or up to 100%.
- 15 Government Source Inspection / Third Party Inspection**
Government and/or third party inspection is required prior to shipment from seller's plant. Upon receipt of this P.O. the seller shall promptly notify the government/third party representative who normally services its plant, so that appropriate planning can be accomplished. If such representative does not serve the seller's plant, the seller shall contact the closest Air Force, Army, or Navy Inspection office. If such office cannot be located, the seller shall notify immediately IEI's purchasing agent.
- 18 Raw Material Identification**
All raw material supplied under this P.O. must be clearly identified by the application, type, condition and manufacturer of the material.
- 26 Limited Shelf Life Items**

The seller shall provide with the Certificate of Conformance the expiration date, or date of manufacture, permissible shelf life, the lot or batch number, storage temperature and include any other pertinent information relating to the shelf life of the items supplied. The above shall also appear on the labels of the individual items or containers. The material shall not have exceeded 25% of the total shelf life by the date of shipment.

28 SPC Data Requirement

A copy of the seller's statistical process control data (control charts, histograms, process capability studies), relevant to the manufacturing of this lot is required with this shipment.

29 Raw Material Analysis

Raw material used in the fabrication of parts under this P.O. shall be traceable to a mechanical and chemical analysis. The test results shall conform to the current material specification and/or acceptance tests. A copy of the actual analysis shall accompany each delivery.

32 Statement of Work (SOW) / Corporate Work Transfer (CWT)

The seller shall meet all the supplementary quality requirements specified in the attached Statement of Work (SOW) or Corporate Work Transfer (CWT).

39 Boeing Company D1-4426 Approved Processors

Seller shall be listed or utilize sources listed in Boeing document D1-4426, Boeing Approved Process Sources, whenever the manufacturing and inspection processes are listed in D1-4426, except as noted in D1-4426. The seller shall impose this requirement on the seller's subcontractors.

40 Lockheed Fort Worth Company QCS-001

Seller shall comply with the process source control requirements and limitations of LFWC QCS-001 Processor Quality Requirements and Approved Process Sources.

45 Summary of Maintenance Actions

Seller shall provide a report indicating the failure, the action performed to correct the failure (including replaced or reworked part numbers), and the actions performed that verified the correction (testing).

47 Additional Incoming Assessment

Route to appropriate technical area for acceptance testing and/or other verification prior to input to stock. Approval noted on acceptance tag by initials/date.