

## QUALITY ASSURANCE REQUIREMENTS

To determine those requirements which are invoked in Arkwin Purchase Orders refer to the paragraphs listed below.

### Section I - Quality Systems Requirements

1. As applicable, the suppliers quality management system shall conform to / or be registered to ISO 9001/AS9100, or maintain an inspection system considered adequate for goods or services provided.
2. Deleted, intentionally left blank.
3. Supplier shall inform Arkwin of major changes in management, change of location, or major changes which may affect quality or delivery.
4. **Calibration System** - The Vendor shall maintain a Calibration System conforming to ANS/NCSL Z540-3, ISO 1002-1.

### Section II - Documentation Requirements

5. **Certification of Conformance**- The Vendor shall submit with each shipment a certification of conformance certifying that all parts shipped against this purchase order are in conformance with the requirements of the purchase order and other referenced specifications. The Vendor is responsible for assuring the latest revision of applicable specifications needed to meet the requirements of the drawing and purchase order or "V" ticket unless otherwise specified.
- 5a. The Certificate of Conformance shall reference GEAE S-1000.
- 5b. Submission of non-conforming parts must be physically identified by NMR number, including delivered documentation.
6. **Raw Material** - Each shipment must be accompanied by a certificate of conformance incorporating a record of actual chemical and/or physical material analysis or as per the applicable specifications and stating that the material meets the applicable material requirements. Material certifications must contain our purchase order number prior to submitting to Arkwin to ensure traceability. Verbal purchase orders (if used) submitted to sub tier vendors must be followed by a hard copy.
7. **Purchaser Furnished Material** - Certification that finished parts have in fact used the materials furnished by the purchaser must accompany the parts.
- 7a. **"Gov't Furnished Material"**- Certification that finished parts have in fact used the material furnished by the government must accompany the parts.
8. **Changes** - Prior purchaser approval must be obtained before implementation of any significant process change or a design change affecting a significant process, or characteristic.
- 8a. For GEAE/ARKWIN Source substantiated parts, changes must comply with requirements of S -1001.
- 8b. Vendor to submit critical process procedure for their initial approval and/or change control.
- 8c. Supplier must utilize GEAE "Yellow Page" Approved source.
9. **Packaging, Preservation and Shipping** - Unless otherwise specified, these shall be to the best commercial practice.
10. **Age Control and Life Limited Products** - Certification of cure date, batch number, compound type and length of life must be included with each shipment of materials called for on this purchase order.
11. **Inspection and Test Records** - Original records created and maintained by suppliers shall be legible, identifiable, retrievable, and stored to prevent damage for seven years from completion of contract unless otherwise required by contract. Record copies to accompany delivery of product per Purchase Order requirement, or made available upon request by purchaser. Records shall be available for review by purchaser, customer and regulatory authorities.
- 11a. All M83248/1 per AMS-R-83248 require all applicable test data to be submitted to Arkwin with each shipment.
12. **Inspection and Test Characteristics** - Characteristics which are to be subject to inspection or test shall be per applicable B/P unless otherwise specified.
13. **Special Process Certification** - The Vendor shall supply certification for all special processes performed. Where certifications are required, they must accompany each shipment, Certificates of conformance are required which attest that work performed on this order is in accordance with all specifications, as called out in the purchase order and the process and personnel, as applicable, are approved. All certificates must be signed by a responsible company representative with title noted. Any deviation to specification and / or work instruction as specified must be approved in advance and clearly noted on all delivered certifications and shipment documents.

- 13a. All special process suppliers used must be listed for the applicable process on the current Arkwin approved listing. Additionally, if a special source is defined, no alternate is allowed without prior approval. Record of required test results or process controls are to be provided upon request.
- 13b. All certifications supplied by a vendor from their special process sub tier vendors must include our purchase order number before submitting to Arkwin to ensure traceability. Verbal purchase orders, if used, must be followed by a hard copy.
- 13c. The certification shall include, when applicable, actual values for process performed. Example: hardness test data after heat treat, hard anodize thickness tests, etc.
14. Characteristics noted as "Key" or "Critical" require submission of control plan data.

- 14a. 100% dimensional inspection required on all drawing characteristics. Evidence of or certification of compliance to this requirement to be delivered with hardware.

### Section III - Inspection Requirements

15. **MRB Authority** - Delegation of Material Review Board Authority by Arkwin to its subcontractors is NOT permitted except by express written approval of Arkwin.
16. **100% Visual Inspection** - required prior to shipment.
17. **First Article Inspection** - The supplier shall perform a First Article Inspection per AS9102. This applies to the first order of a part number shipped and a delta for any subsequent drawing revisions.
18. **X-Rays Reports** - All items included in this purchase order requiring radiographic inspection shall be submitted to an Arkwin approved x-ray laboratory and processed in accordance with specifications and standards. All findings will be reported on a suitable form(s). The form shall contain the name of the individual reading the film and the signature and title of an authorized laboratory representative. This form must be submitted with the shipment of material back to Arkwin and have some means of cross-referencing the film, forms and each item.
- 18a. The Vendor shall submit and x-ray Quality Plan for Arkwin review and approval before shipments can be permitted.
19. **Right of on site inspection:** Arkwin, its customer and regulatory authority retains the right to inspect any and or all of the work, including relevant data, included on this purchase order at the supplier's facility.
20. **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.
- 20a. Deleted - intentionally left blank.
21. The Government / Federal Aviation Administration has the right of access and the right to inspect any or all of the work included in this order at the supplier's plant.
- 21a. During performance on this order, Supplier's Quality Control or inspection system and Manufacturing processes are subject to review, verification and analysis by authorized government representatives. Government inspection or release of product prior to shipment is not required unless you are otherwise notified.
22. The items supplied will be manufactured with a high concern for the reliability and maintainability of the end item as well as the safety of the user as a prime consideration. No items shall be shipped with known discrepancies without prior written approval via Supplier Non-conforming Material, Report.
23. Material and parts must be handled and stored in a manner in which not to affect the cosmetic appearance, form, fit or function of the part.
24. Deleted - intentionally left blank.
25. Applicable portions of Arkwin QCP#805.
26. Deleted - intentionally left blank.
27. FAA Conformity Inspection required. Delivery of required documentation or on-site inspection is mandatory as directed.
28. **FOD Migration** - Whenever and / or wherever FOD entrapment or foreign objects can prevent, seller shall ensure that applicable FOD prevention control is implemented.
29. **Counterfeit Parts Prevention:** Supplier must ensure that proper procedures are in place to prevent the use of counterfeit parts as per AS5553.