



SUPPLIER QUALITY REQUIREMENTS

The provisions listed below shall be made part of the Purchase Order when referenced on the face of the order. Only those listed by number on the Purchase Order shall apply. The latest revision of all specifications in effect at the time of award of Purchase Order (unless otherwise noted on the procurement document) shall apply.

1.0 Quality System Requirements

The Supplier's Quality System shall comply with the requirements of one of the following:

- A) AS9100
- B) ISO9001

2.0 Source Inspection

A) VAUPELL Source Inspection:

All items on this Purchase Order require inspection and/or test, by a VAUPELL Quality Representative, at the Seller's facility prior to shipment. VAUPELL Quality Assurance shall be notified forty-eight (48) hours in advance of the time articles are ready for inspection.

B) VAUPELL Source Surveillance:

All items on this Purchase Order are subject to surveillance by VAUPELL and/or VAUPELL's customer, during the period of manufacture, processing, inspection, and/or testing. Upon receipt of this order, and prior to commencement of performance, contact VAUPELL Quality Assurance or Field Representative servicing your facility to arrange scheduling of such surveillance.

C) Customer/Vaupell Rights:

The Customer and/or Vaupell reserve the right to inspect any or all of the work included in this order at the Seller's plant.

D) Government Source Inspection:

D.1. 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.

D.2. On Receipt of this order, promptly furnish a copy to the Government Representative; if none, send to the nearest Army, Navy, Air Force, or Defense Supply Agency Inspection office. In the event the representative or office cannot be located, our Purchasing department should be notified immediately.

3.0 First Article Inspection

A) First Article Inspection at Destination:

The Compliance of Seller's design with requirements of applicable engineering drawings and specifications will be determined from inspection and acceptance by Buyer of one (1) first article sample representative of the production process. Said sample shall be delivered to Buyer's plant



and must be accepted prior to production run. All samples shall be tagged or otherwise identified. All data resulting from the Seller's first article shall be submitted with first article. Seller will be notified in writing of disposition (approval or rejection).

B) *First Article Inspection at Source:*

First Article Inspection shall be accomplished at the Seller's plant prior to production run. VAUPELL Quality Engineering shall be notified at least forty-eight (48) hours in advance, shall witness the First Article Inspection, and shall verify results by authenticating the appropriate documents. Verification of such results shall not constitute acceptance of any items required to be delivered hereunder, nor relieve Seller of its obligation to furnish items meeting the applicable drawing and specification.

C) *First Article Report:*

The Seller shall furnish a First Article Report, prepared in accordance with AS9102 (latest revision) requirements with the first shipment of each item when:

- It is the first time the seller has made/supplied the item to VAUPELL.
- Drawing Revision changes as drawing dimension (for the change only)
- A seller makes a change in major sub-tier support (i.e. different machine shop, chemical treatment, plating) from the original FAI.
- Seller makes an engineering prototype.
- There has been two years or more since last production.
- There has been a change in manufacturing source(s), process(es), inspection methods, location of manufacture, tooling, or materials that can potentially affect fit, form, or function.

4.0 Boeing Approved Supplier

- A) Parts manufactured under this Purchase Order require use of Boeing D1-4426 Approved Processors.

5.0 Test/Data Reports

A) *Acceptance Test Data:*

Each shipment against this order must be accompanied by a copy of the Seller's acceptance test(s) data to provide evidence of compliance with all acceptance test requirements.

B) *Physical/Chemical Report:*

A validated physical/chemical test report must accompany all shipments made against each item of this Purchase Order which indicates the percentage of each element that makes up the chemical composition and physical properties of all raw materials. The report shall specifically identify the material by reference to the number of the melt, cast, heat, drop, lot, or other similar designation, and must indicate the applicable specification, revision, and Purchase Order designation.

C) *Physical and Chemical Analysis:*

Seller shall maintain results of chemical and physical analysis if performed on raw materials (e.g., resins, paints, adhesives) which are employed on fabrication of articles purchased on this order, and shall make these available upon request.



- D) *Material Certs:***
One (1) copy of material certifications, identifiable to the material submitted, must accompany each shipment.
- E) *Dimensional Data:***
A dimensional check sheet shall be furnished with each part submitted for inspection. All check sheets shall include the heat, batch or lot number (as applicable), traceable to the raw material used, and shall specify the characteristics inspected and shall indicate acceptance by Seller Acceptance Stamp. Unless otherwise specified, recording of actual dimensions is not required. Whenever fixtures or tooling are used in lieu of inspection gages, fixture or tool numbers must be so referenced on the check sheet.

6.0 Lot Traceability

- A) *Traceability System:***
All items on this order are subject to traceability at the seller's facility, which is defined as the ability to trace the history, application, use, and location of an individual item or characteristic lot of items through the system assignment, recording, and correlation of control identification.
- B) *Lot Identification:***
The Supplier shall assign a lot identification for each batch or manufactured lot. A lot is defined as a quantity that has been blended, mixed, or fabricated during an uninterrupted manufacturing run. Each item in each lot shall be properly identified with the assigned lot number. If vendor does not create parts by lot number designation but rather made to order by PO, then they may request Vaupell's permission to assign Vaupell's PO number as the part's lot number for traceability.
- C) *Single Lot:***
All items furnished in accordance with this Purchase Order shall be of the same manufacturing lot. The manufacturing lot number shall be marked on the shipping papers.
- D) *Identification:***
The Seller shall legibly identify each part, assembly, and material in the methods, and with the information, prescribed by the detail document (for example: Purchase Order number, gage or tool number, etc.) as required. Parts, assemblies, and materials not having sufficient space for, or which could be damaged by marking, shall be identified by a tag attached to the part or container.

7.0 Age Control/Cure Dates

- A) *Age-Sensitive Material:***
If the articles furnished in accordance with the Purchase Order are subject to Age Control (e.g., paints, tapes, adhesives, etc.) seller shall mark articles with batch or lot number, date of manufacture, cure date, storage environment, and/or shelf life. The seller shall ensure that a minimum of 75% of the shelf life remains at the time the material is delivered to Vaupell.



8.0 Certificate of Conformance

- A) The Seller shall submit, with each shipment of material, a statement on the Seller's stationary that certifies the following: "All material and/or services supplied are in conformance with requirements of this purchase order. Test reports, inspection results, and other verifiable documentation of quality are maintained at the point of manufacture and are available for review by the Buyer and/or Government Representative".
- B) Spirit Products: C of C must contain Spirit letter of authority number.
- C) Boeing products: C of C must contain: "Seller hereby acknowledges that the parts and/or materials being shipped under this order are intended for use under Boeing's Federal Aviation Administration (FAA) issued Production Certificate 700, and no articles (or constituent parts thereof) or the accompanying paperwork (e.g., packages, shippers, etc.) contain any Federal Aviation Administration- Parts Manufacturer Approval (FAA-PMA)."

9.0 Right of Entry

- A) The Buyer's Quality Assurance representative, VAUPELL's customer and/or their customer, and any regulatory agency may perform audits and maintain surveillance of the seller's facility to assure compliance with the Quality Program, and evaluate the degree of capability and the continuing application of such ability to comply with these requirements. This function may also apply to sub-suppliers with seller's cognizance. The seller shall provide such facilities and assistance as may reasonably be required by the Buyer's Quality Assurance representative in the performance of their functions.

10.0 Design and Development Control

- A) The Seller specifically agrees that no changes are made in design, configuration, material, manufacturing process, testing method, or testing sequence without prior written approval of the buyer.
- B) Seller's drawings, specifications, process documentation, and test procedure, which have previously been approved by the Buyer, shall be resubmitted to the buyer for evaluation and approval prior to the Seller effecting changes to the product or data. Changed articles shall be identified so as to segregate them from unchanged articles.

11.0 Rejected Material

- A) **Failure Analysis:**
Seller shall conduct failure analysis on returned products, as required by the buyer, and furnish documented report of results to the Buyer. Each failure analysis report shall contain the basic identification information as to type of hardware that failed, type or description of the analysis that was conducted on the failed part, the conclusions derived as results of this analysis, and the corrective action taken to prevent a recurrence of the failure. Buyer reserves the right to witness the failure analysis.



12) Customer Property

- A) Seller is held responsible for the control, protection, calibration, and care (other than normal wear) of all materials, tooling, and equipment furnished by the Buyer or paid for by VAUPELL for use in the performance of Purchase Order requirements. All tooling shall be subject to Buyer surveillance and/or inspection upon notice. Materials, tooling, or replacement tooling of equal quality, shall be returned to the Buyer in an acceptable condition upon demand or notice.

13.0 Special Process Approval / Certification

- A) **Approval and Certification:**
Special processes, equipment, and personnel utilized in performance thereof, shall be subject to approval or certification by VAUPELL Quality Assurance. Certification of special processes performed by a lower tier supplier is the responsibility of the Seller (first tier supplier). Objective evidence of special process certifications of the Seller's lower-tier supplier(s) shall be available to VAUPELL Quality Assurance at the facilities of the Seller and at any sub-tier supplier's facility utilized in the performance of this order.
- B) **Approval:**
Processes performed by the Seller or his subcontractors, such as welding, heat treating, cleaning, electroplating, anodizing, chemical filming, non-destructive testing, etc., require VAUPELL Quality Assurance approval prior to fabrication under this order and objective evidence of process specification compliance must be retained and be made available to VAUPELL and/or Government Representative on request.
- C) **Certification:**
Process Certification must accompany all shipments to VAUPELL and shall identify the processor, process used, and the specifications to which they conform. When non-destructive tests are performed, the certification shall be accompanied by a legible copy of the report.

14.0 Nonconforming Material

- A) Seller's items which adversely affect form, fit, or function, or reliability and not conforming to VAUPELL specifications shall be dispositioned by VAUPELL Material Review Board (MRB) prior to shipment. Disposition by VAUPELL MRB may be obtained by contacting the cognizant VAUPELL Buyer. MRB authority is not delegated to the Seller where nonconformance affects form, fit, or function or reliability.

15.0 Re-qualification

- A) Re-qualification on previously qualified items may be required as determined by VAUPELL when a change is made to the design or to the production process. Specific situations that generate a requirement for re-qualification include:
1. Any change in hardware design or specification
 2. A new manufacturing or processing source



3. Relocation of a manufacturing or processing facility
4. Interruption of 90 or more days in production of an item

Suppliers and/or sub-tier suppliers anticipating or experiencing any of the above shall notify VAUPELL within three (3) working days if any of these situations become apparent. VAUPELL will provide suppliers with specific re-qualification requirements when required.

16.0 Sample Inspection

- A) **VAUPELL Approval:**
Fourteen (14) days prior to the performance of any sampling inspection and/or test (other than 100%) on materials to be furnished to VAUPELL, the supplier shall submit these sampling plans to VAUPELL for review and approval by a cognizant VAUPELL Quality Engineer.
- B) **VAUPELL Inspection:**
Any sample inspection performed on articles supplied on this Purchase Order shall be in accordance with the requirements of specific customer contracts (For example, for Boeing products, D1-8007).
- C) **Disallowed:**
Sample inspection performed on articles supplied on this Purchase Order is not permitted. 100% inspection of all items is MANDATORY.

17.0 Packaging and Packaging Requirements

- A) The seller shall assure that all the supplies on the Purchase Order are packed and packaged using materials of a grade, size, and weight which will provide adequate physical protection from damage and contamination during handling and transport to the point of delivery.

18.0 Requirements Flowdown

- A) All requirements imposed on the Purchase Order shall be flowed down to all suppliers and subcontractors.

19.0 Quality Records

- A) "Quality Records shall be maintained for a minimum of ten (10) years unless otherwise noted. All Quality Records shall be legible and shall be stored in a clean, dry environment so as not to be subject to damage, deterioration, or loss. Electronic storage of records is permissible.

20.0 Supplier Quality Assurance Requirements

- A) Supplier Quality Assurance Requirements are defined in Vaupell Document SQ07-01 Supplier Quality Assurance Requirements Manual. Suppliers are expected to understand and fulfill all requirements of this manual.

21.0 Certified Supplier



- A) *Supplier is certified for Direct Shipment and/or Doc to Stock per SQ07-02 Certified Supplier Handbook.*

22.0 Supplier ITAR Requirements

- A) *This Purchase order and all documents and materials associated with it are subject to export control under ITAR and EAR. Making any export controlled information or materials available to any Foreign Person, as defined in 22 CFR 1 Part 120, is strictly forbidden without express permission by the controlling agency. By accepting this purchase order you acknowledge your understanding and compliance with the requirements as described in 22 CFR 1 subchapter M sections 120 – 130 and 15 CFR chapter VII subchapter C section 744.*

23.0 Prevention of Counterfeit Parts

- A) The organization shall plan, implement, and control processes, appropriate to the organization and the product, for the prevention of counterfeit or suspect counterfeit part use and their inclusion in product(s) delivered to the customer.

NOTE: Counterfeit part prevention processes should consider:

- training of appropriate persons in the awareness and prevention of counterfeit parts;
- application of a parts obsolescence monitoring program;
- controls for acquiring externally provided product from original or authorized manufacturers, authorized distributors, or other approved sources;
- requirements for assuring traceability of parts and components to their original or authorized manufacturers;
- verification and test methodologies to detect counterfeit parts;
- monitoring of counterfeit parts reporting from external sources;
- quarantine and reporting of suspect or detected counterfeit parts.

24.0 Awareness

- A) Ensuring that persons are aware of:
- their contribution to product or service conformity;
 - their contribution to product safety;
 - the importance of ethical behavior.

25.0 Competence

- A) Employees must demonstrate competence in their job requirements and possess certifications as required.