

## QA Notes (Rev F)

<b>Rev. Level</b>	<b>Effective Date</b>	<b>Changes</b>
N/C	05/24/2010	New QA Notes.
A	08/03/2012	Revised QA11
B	7/29/2014	Revised QA14
C	4/26/2017	Revised QA14
D	10/11/2017	Added Notes QA21 & QA22
E	03/16/2018	Added Notes QA23, QA24, QA25
F	09/11/2018	Edited typing error - QA16 Corrected Spec D1-4426

### **NOTE:**

**QA1:** Suppliers shall implement and maintain a Quality System conforming to AS9100, ISO9000, or other recognized standard to control product and process quality. The system shall include a company wide process that fosters continuous quality improvement and a calibration system based on ANS/NCSL-Z540-1 or MIL-STD-45662. Supplier Quality Systems are subject to audit by FMI, Incorporated.

**QA2:** When required by contract a Quality Plan must be submitted to FMI, Incorporated for approval prior to the completion of the FAI.

**QA3:** During the performance of this purchase order, FMI, Incorporated, it's customer, and/or regulatory agencies have the right of entry to determine and verify product quality, records and material at any place, including the plant of the supplier. FMI, Incorporated's acceptance of such product does not absolve the supplier of the responsibility to provide acceptable product, nor does it preclude subsequent rejection by FMI, Incorporated's customer. The supplier shall include the right of entry provision in any of their subcontracts.

**QA4:** All suppliers must purchase raw materials from prime customer approved sources when applicable, i.e. D1-4426 or other approval listings. Material produced/procured outside of the U.S.A. always requires the use of customer approved sources.

**QA5:** The supplier agrees to insure that materials utilized in the performance of this order, whether furnished by FMI, Incorporated or the supplier, will be segregated and controlled to insure traceability and prevent being intermingled with any other materials.

**QA6:** If applicable, assigned serial numbers shall be maintained throughout all manufacturing cycles and shall be identified on both the parts and all documentation at time of shipment.

**QA7:** All parts and age control products must be protected against damage and corrosion during delivery utilizing sound standard packaging practices. Special packaging instructions, when required, will be specified on the Purchase Order.

**QA8:** Copies of all material, processing, and test certifications must accompany each shipment of parts as required by the applicable specification.

**QA9:** Copies of chemical and physical analysis certifications must accompany each shipment of parts for all supplier purchased materials.

**QA10:** All special processes required by the Purchase Order must be performed by sources which are approved by the prime customer, and to the latest revision of the applicable process specification.

**QA11:** Applicable on initial production part by supplier, a First Article Inspection (FAI) report is required for each dash number submitted through Net-Inspect (no additional cost to supplier for Net-Inspect use). The inspection report shall indicate the actual measurement obtained for each characteristic listed on the blueprint, parts list, and PO Instructions. When repetitive dimensions are inspected, (i.e. holes of the same size, web thickness of the same size, etc.) record actual measurement individually, and specify locations. A Delta FMI report is required on any future configuration changes, including changes in processes. All FAIs shall comply with the requirements and shall be formatted per AS9102 unless otherwise noted on the purchase order.

**QA12:** Source Inspection required. Source Inspection shall be coordinated with the buyer prior to delivery.

**QA13:** If a key characteristic is required by engineering documents or the FMI P.O, the supplier shall place all key characteristics under statistical process control. If the supplier does not have the ability to perform this requirement, contact the FMI, Incorporated buyer immediately prior to continuing with purchase order requirements. Documentation requirements of key characteristics are as follows:

- The supplier will provide copies of S.P.C. documentation with all parts delivered to FMI, Incorporated.
- The documents required for each key characteristic shall be IX-MR chart or Xbar-R chart.
- If 21 or more parts are listed on the control charts, then upper and lower control limits along with a Cpk reading shall be indicated on the control chart.
- All charts will be identified with the part number, dash number, and the key characteristics.

This documentation will be in addition to all other documentation required by the purchase order and engineering requirements.

**QA14:** Quality documentation records and certifications must be maintained on file for a period of ten years after final payment of this purchase order, unless otherwise noted.

**QA15:** Purchase Order for Standard Hardware of assemblies that include Standard Hardware (i.e. BAC, AN, NAS, STM, MIL, etc.) are to be satisfied with material of the latest specification revision level in effect and must comply with all obsolescence / replacement criteria, when applicable.

**QA16:** Items on this order are for Boeing aircraft use and must comply with all Boeing engineering requirements, including the D-590 and D1-4426 specifications for the particular item(s) ordered.

**QA17:** Material ordered by this purchase order is for Boeing aircraft end use. All manufacturing and/or procurement must comply with the requirements of the D14226 document current at the time of manufacture/procurement.

**QA18:** Suppliers must notify FMI, Incorporated of all product or material nonconformities immediately upon discovery.

**QA19:** Suppliers must furnish full certifications and test reports on the materials ordered on this purchase order

**QA20:** Suppliers must notify FMI, Incorporated of changes in product and/or process definition and obtain FMI approval prior to proceeding with change and/or shipment.

**QA21:** DPD/MBD Boeing D6-51991 and/or Spirit MAA1-10009-1 requirements are flowed down to supplier as applicable

**QA22:** This procurement is made under Boeing Aircraft Company's FAA issued Production Certificate 700 quality system supplier control program. The seller will place the following or otherwise compliant statement on all shipping documents: (Boeing PO Note 31)

*"Seller(or we) hereby acknowledges that the parts and/or materials being shipped under this order are intended for use under Boeing's FAA issued Production Certificate 700"*

*Unless explicit direction to the contrary is given, no articles or constituent parts thereof ordered in support of Boeing programs shall contain any FAA-PMA markings. These articles shall not be certified under an FAA-PMA approval and the accompanying documentation, shippers, etc., shall not contain any FAA-PMA markings.*

**QA23: ITAR Requirement – IMPORTANT/CONFIDENTIAL**

This PO (and any drawing and/or attachments accompanying it) may contain confidential information, including information protected by the United States Government. The information is intended only for the use of the intended recipients(s). Delivery of the PO to anyone other than the intended recipient(s) is not intended to waive any privilege or otherwise detract from the confidentiality of the PO. If you are not the intended recipient, or if the PO has been addressed to you in error, do not read, disclose, reproduce, distribute, disseminate or otherwise use this information, rather, please promptly notify the sender by phone or email, and then destroy all copies of the PO and its attachments, if any.

**QA24:** As of January 1, 2018, Suppliers may put into place a documented program to avoid, detect, mitigate and disposition counterfeit parts and materials. Suppliers should utilize and reference SAE standard AS6174 for guidance. Suppliers shall also flow down counterfeit parts programs requirements to their sub-tiers, especially, but not limited to:

- Raw material suppliers
- Distributors

**QA25:** The supplier shall establish, document, and maintain a program to control and eliminate FOD and/or contamination during the Supplier's manufacturing, assembly, test, inspection, packaging and shipping operations. When applicable, the Supplier's FOD control program shall include controls to preclude FOD or contamination at the Supplier's sub-tier sources.