

Quality Requirements Document

(Standard Requirements)

Part I – General Provisions

1. Definitions. The terms “Buyer,” “Seller,” and “PO” have the means set forth on the Firefly Aerospace Terms and Conditions of Purchase (“Terms of Purchase”). Capitalized terms used but not defined herein shall have the meanings ascribed thereto in the Terms of Purchase.
2. Acceptable Quality System. Seller shall provide and maintain a quality system acceptable to Buyer and Buyer’s customers for the Goods and Services covered by the PO.
3. Access.
 - 3.1. Seller shall provide Buyer and Buyer’s customers access to any areas where work is being or is scheduled to be performed under the PO.
 - 3.2. Buyer shall have the right to perform in-process inspection, audits, and system surveillance at Seller’s and Seller’s sub-tier supplier’s facilities as part of the verification of conformance to the requirements of the PO. Buyer shall have the right to utilize sample inspection methods for acceptance of product. If the sample is unacceptable, Buyer shall have the right to return all or part of the lot for credit or replacement.
4. Nonconformances.
 - 4.1. Seller disposition of non-conforming items that are of Buyer’s design are limited to scrapping of the material, elimination of the nonconformance by rework, or return to supplier. Seller shall not incorporate any nonconformance into any product, process, procedure, or data unless and until Seller has obtained written approval from Buyer. Seller’s continued processing of Buyer designed material containing a nonconformance prior to Buyer’s Material Review Board (MRB) disposition is at Seller’s sole risk. Buyer and Buyer’s customers shall have the right to refuse to accept any nonconformances.
 - 4.2. Seller shall implement, and maintain a system that provides for identification, documentation, segregation, and disposition of nonconforming material and shall assure effective and positive corrective action is taken to prevent, minimize or eliminate nonconformances.
 - 4.3. Upon return of nonconforming material by Buyer, Seller shall assess the identified nonconformance, complete a Supplier Evaluation Document and forward to Buyer within 10 working days of receipt of material.
5. Government-Industry Data Exchange Program (GIDEP) Membership. If Seller is eligible for GIDEP membership, Seller is required to be a member of GIDEP. Seller shall implement a process for reviewing and evaluating problems identified in GIDEP alerts.
6. Flowdowns. Seller’s POs to sub-tier suppliers shall clearly reflect and define all processing and nondestructive testing requirements including special procedures, inspections, tests, and approval criteria as required by the PO. Seller shall assure appropriate specifications and other



directives are available and used by Seller's sub-tier suppliers. Seller shall require sub-tier suppliers likewise to incorporate documents and requirements in POs to their subcontractors.

7. Certificates of Conformance. Seller shall prepare and deliver a Certificate of Conformance (CoC) with each shipment. This CoC shall certify that all items provided under the PO meet all applicable requirements. The CoC shall be included with the Seller's shipper to Buyer. Specific requirements for CoCs are set forth in Part II of this document.

8. Source Inspection. When Buyer Source Inspection is required, Seller shall comply with the following:

A. Seller shall present with each shipment, for review by Buyer's representative, the final inspection and test results, as applicable, and the CoC.

B. Seller shall obtain evidence of Buyer representative's acceptance. If Government Source Inspection (GSI) is specified on the PO, Seller shall obtain evidence of Government acceptance prior to shipment.

C. When modifications, repairs, or replacements occur after Seller's final inspection or test, Seller shall perform re-inspection and test of affected characteristics prior to presentation for Buyer acceptance.

9. Buyer-Specified Materials. Seller shall establish and maintain controls to prevent the use of materials from unapproved sources when Buyer-Approved sources (e.g., Engineering Materials and Approved Products) are required by the PO.

10. Qualified Parts List. The Seller shall only use drawing or specification defined components, adhesives, finishes, brazing/welding materials. These materials are to be purchased only from qualified Sellers that are identified from drawing or specification as "approved" sellers.

11. Current Specifications. It is the Seller's responsibility to verify that all necessary product and material specifications of Buyer in use at the Seller facility are the most current release, unless otherwise specified in the PO. This shall include but not be limited to, Industry Standards, Government Specifications, and the Company provided drawings and/or data.

12. Calibration. Seller shall maintain a system for calibration and maintenance of tools, jigs, inspection and test equipment that is compliant with an industry-recognized standard (e.g., ISO 17025, ISO 10012-1, ANSI Z540).

13. Foreign Object Damage (FOD) Prevention.

13.1. Seller shall maintain a FOD Prevention Program compliant to Aerospace Standard AS9146, Foreign Object Damage (FOD) Prevention Program - Requirements for Aviation, Space and Defense Organizations.

13.2. Whenever or wherever Foreign Object Debris (FOd) can be entrapped or Foreign Objects (FO) can migrate, Seller shall ensure that applicable FOD prevention requirements are flowed down to Seller's subcontractors at every tier.

13.3. Prior to closing inaccessible or obscured areas and compartments during assembly, Seller shall inspect for FO/materials and ensure no protective devices (e.g., bags, caps, covers, plugs) remain embedded. Seller shall ensure tooling, jigs, fixtures and test or handling equipment are maintained in a state of cleanliness and repair sufficient to prevent FOD.

13.4. By delivering Items to Buyer, Seller shall be deemed to have certified to Buyer that such Items and packaging are free from any FO, FOd, and FOD.

14. Record Keeping. Seller shall maintain complete records of all manufacturing, inspection, and test. Records shall be made available to Buyer and Buyer's customers during the performance of the PO and at least ten (10) years after completion of the PO and for such longer periods, if any, as may be specified elsewhere in the PO. Upon request by Buyer, records shall be forward to Buyer at no additional cost within 30 days of request.
15. Document Review. Seller shall submit to Buyer all relevant and required inspection and test data for the products and services ordered prior to shipment if required by applicable quality clause in Part II of this document.
16. Change Notification. Seller shall report to Buyer procurement personnel any changes in the Seller's process or product definition that could affect the form, fit, or function of the deliverable service or product. This includes but is not limited to ANY changes/substitutions in Seller's process or product definition that could/would affect the quality, conformance and/or performance of the services, process and/or product to be delivered or performed, as the case may be. Any deviation in process or product definition by Seller requires Buyer approval prior to implementation of the changes.
17. Material Packaging. In addition to the requirements of Section 5 of the Terms of Purchase, material shall be packaged in a manner to prevent damage or deterioration. Unless otherwise specified, best commercial/industry practice is acceptable for use. The supplier is responsible to ensure the product will be shipped and arrive at Firefly Aerospace in an acceptable condition.
18. Counterfeit Parts/Materials Prevention and Control. In addition to the requirements of Section 10 of the Terms of Purchase, Seller shall ensure through processes and/or a formal program against Seller's receipt of, entering into inventory, use in manufacturing, and sale and delivery of counterfeit parts/materials to Buyer. Seller's processes and/or formal program shall be compliant to and meet the intent of SAE AS6174, Counterfeit Material; Assuring Acquisition of Authentic and Conforming Material and/or AS5553, Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition.
19. Noncompliance. Failure to meet the requirements of this document will be construed as a material breach of the Terms of Purchase.

Part II – Specific Quality Requirements

1. **FFQC1- Certificate of Conformance**. A Certificate of Conformance (CoC) shall be submitted with each shipment. The CoC shall include the following at minimum:
 - 1.1. Supplier name and address.
 - 1.2. PO number.
 - 1.3. Part name (Buyer, Manufacturer, or Distributor).
 - 1.4. Part number (if applicable) (Buyer, Manufacturer, or Distributor).
 - 1.5. Supplier part number (if applicable).
 - 1.6. Drawing revision letter or number
 - 1.7. Specification. (if applicable)
 - 1.8. Date of manufacture.
 - 1.9. Batch/lot number.
 - 1.10. Expiration date and shelf life (for materials impacted by shelf life)
 - 1.11. Serial number(s) (if applicable).

- 1.12. The raw material manufacturer's batch/lot number (if a raw material).
- 1.13. Statement that the product meets all Buyer requirements noted or referenced in the PO.
- 1.14. Name and title of responsible person, along with the responsible person's signature or stamp.

2. FFQC2 – Material and Process Certifications. The following certifications shall be included with the shipment if applicable.

- 2.1. Material Certification. Document with chemical/physical test results that demonstrate compliance with the applicable raw material specification requirement. A copy is required for all purchased raw material.
- 2.2. Process Certification. Document that certifies that a chemical/physical process meets Buyer requirements. A copy is required whenever a process is performed that changes a material's chemical or physical properties.

3. FFQC3 – Proof of Traceability. The supplier shall provide a document that shows the traceability of the parts delivered on the PO per the table 3 below:

Table – Traceability Data requirements

Condition	Required level of Traceability	Data to be submitted
The drawing does not have a Parts List/Bill of Material or subassemblies	To the raw material used for the part	Source, lot number or equivalent, and date received
The drawing does have a Parts List/Bill of Material or sub-assemblies.	For each item on the Parts List/Bill of Material	Source, lot number or equivalent, and date received
	For the sub-assemblies to items on the Parts List/Bill of Material	No data is required to be submitted. Data to be available on request.

Note: The supplier shall always be able to provide traceability of the finished parts to lot numbers, raw material, and test data as appropriate when requested by the Buyer. The FFQC3 requirement is to actually submit the data listed above showing traceability.

4. FFQC4 – Dimensional Inspection Results.

- 4.1. Shows results of inspections for all critical characteristics, critical dimensions, non-reference dimensions, and notes on the drawing.
- 4.2. Gather and submit data for the first part of the initial shipment.
- 4.3. Include the device / method of inspection for each feature.

5. FFQC5 – Functional Test Results.

Summary of results of testing performed on each production unit as defined by the design authority.

6. FFQC6 – Shipping Certification.

Required if product is shipped to the Buyer in an environmentally controlled storage unit.

7. FFQC7 – Industry Certifications Required.

- 7.1. Design / Production – AS/EN/JISQ 9100

- 7.2. Stockists and Distributors – AS/EN/JISQ 9120
- 7.3. Raw Material manufacturers to material specifications – AS/EN/JISQ 9100
- 7.4. Inspection and Testing ISO/IEC 17025 or AC 7004
- 7.5. Testing and calibration laboratories ISO/IEC 17025
- 7.6. Special Processors – NADCAP / NUCAAP is acceptable for Firefly Aerospace designed class C, B, A hardware.

8. FFQC8 – Ballooned Print.

Print that has the dimensions and notes numbered to match the dimensional inspection report.

9. FFQC9 – Validation Test Results.

- 9.1. Summary of results for all tests specified by Buyer Engineering
- 9.2. Name of test, passing criteria, date of test(s), number of parts tested, and results.

10. FFQC10 – First Article Inspection Reports.

- 10.1. The supplier shall submit a First Article Inspection Report (FAIR) in accordance with the current revision of AS9102 when the first shipment is made of the part on the PO.
- 10.2. The first submittal must be a Full FAIR as defined in paragraph 5 below.
- 10.3. Subsequent FAIRs may be Partial Fairs as defined in paragraph 6 below.
- 10.4. The products that are physically verified must be from the same production run as the remainder of product being verified by that FAIR. Excess products remaining from a previous production run must not be used.
- 10.5. A full FAIR submittal package must include:
 - A. AS9102 Form 1 – A list of the applicable part numbers and sub-assemblies.
 - B. AS9102 Form 2 – A list of raw materials, specifications and special processes.
 - C. AS9102 Form 3 – A list of the required design features including the tolerances and drawing notes as well as the actual measurement results.
 - D. A ballooned drawing identifying each of the features on form 3.
 - E. A new full FAIR is required when any of the following occur:
 - F. A change in the location of manufacture.
 - G. A significant change in a numerical control program used to manufacture the component or translation of the program to another media that can potentially affect fit, form, or function.
 - H. A natural or man-made event, which may adversely affect the manufacturing process. Example a flood, fire or earthquake.
 - I. A lapse in production for two years or more. This lapse is measured from the completion of the last production operation to the actual restart of production.
- 10.6. Partial FAIRs
 - A. A partial FAIR does not address all the features of a part. It only addresses features that have changed or need to be verified since the last approved FAIR.
 - B. At the supplier's discretion, a partial FAIR may be used to document those changes.

- C. Conditions where a partial FAIR may be submitted include:
- D. The revision number or letter has changed.
- E. When required as part of implementation of a corrective action.
- F. A change in manufacturing source(s), process(es), tooling or materials that can potentially affect fit, form, or function.
- G. If multiple revisions to a drawing are being verified, they may be submitted on one partial FAIR that combines the changes of each revision.
- H. A partial FAIR may be based on another partial FAIR.
- I. No more than 2 partial FAIRs may be done before a full FAIR is done.
- J. A partial FAIR may be used to address a rejection on a FAIR submittal. In that situation, only the features that were rejected need to be addressed.

11. FFQC11 – Evidence of Sub-Supplier Approved FAI Packages.

Copies of FAI approvals from relevant sub-suppliers.

12. FFQC12 – Proof of Calibration Status.

12.1. Shows equipment calibration including:

- A. Model Number
- B. Serial Number
- C. Calibrating Agent or Service
- D. As Left Condition
- E. Date of Calibration
- F. Calibration Point(s)
- G. Calibration Conditions
- H. Calibration Standard(s) Traceability Number(s)

13. FFQC13 – Receiving Dimensional Inspection.

Receiving dimensional inspection is required by Firefly Aerospace QA upon delivery prior to goods receipt.

14. FFQC14 – Receiving Visual Inspection.

Receiving visual inspection is required by Firefly Aerospace QA upon delivery prior to goods receipt.