



# Aero-Tech Engineering Quality Clauses

1. **Right of Entry** – Upon acceptance of the PO/Contract, supplier agrees to provide right of entry to supplier’s facility, to Aero-Tech Engineering (“ATEI”), our Customer, and any applicable regulatory agency.
2. **Special Processes Approval** – Where special process approval is required for a prime contractor specification, supplier shall provide evidence of such approval upon request by ATEI.
3. **Change Control** – There shall be no changes to design, material, part, process, procedure, tooling, or test equipment without prior written approval from ATEI.
4. **PO Change Control** – Any changes to PO agreement without ATEI approval shall not be honored.
5. **Flow Down of Requirement** – The Supplier is required to flow down to sub-tier suppliers the applicable requirements in the purchasing documents including key characteristic where required. The Supplier is also to flow down all Customer requirements (Boeing:D6-56199, D6-51991; Spirit:MAA1-10009-1; Triumph:SQR-004; DPAS/DFARS including DFARS Subpart 225.1 and 225.2.  
[https://www.acq.osd.mil/dpap/dars/dfars/html/current/225\\_1.htm](https://www.acq.osd.mil/dpap/dars/dfars/html/current/225_1.htm)  
[https://www.acq.osd.mil/dpap/dars/dfars/html/current/225\\_2.htm](https://www.acq.osd.mil/dpap/dars/dfars/html/current/225_2.htm)
6. **Nonconformance Material** – Supplier shall notify ATEI of nonconforming product and arrangements for approval of supplier nonconforming product. Cost associated with submitting non-conforming product to ATEI customers will be charged to sub-tiers. All non-conforming parts/material must be identified individually, identified on the packing list as non-conforming and returned to ATEI.
7. **Record Retention** – Supplier shall maintain records that provide objective evidence of compliance to the purchase order requirements and/or specifications. The records shall be maintained for a minimum of 10 (ten) +1 years and made available for review by ATEI upon request. Sikorsky 40 years record retention for Flight Safety Parts IAW SSQR-01. At the end of the retention period, ATEI reserves the right to request delivery of such records and shall be notified in writing prior to disposal. Suppliers ceasing business operations shall contact ATEI so arrangements can be made to transfer the records to ATEI as required.
8. **Certificate of Conformance** – Supplier must submit a Certificate of Conformance (Invoice or Packing Slip can be used for this requirement) with a unique certification number containing the following information:
  - a. Title and Specification Number (including revision letter) of the processes performed.
  - b. Name and address of the processor, manufacturer, or NDT facility.
  - c. Buyer’s assigned processor number; as applicable.
  - d. Date the C of C Conformance (Invoice or Packing Slip can be used for this requirement) was issued.
  - e. Purchase order number and purchase order part number.



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- f. Quantity of parts (to include quantity accepted/rejected).
- g. Signature and title of authorized quality/management agent of Seller; and
- h. Fracture durability classification or serialization when required.
- i. A statement of conformance on the packing slip, separate document, or invoice.

Statement of conformance per example

This is to certify that all of the articles and the quantities as called for in the purchase order listed hereon are in conformance with the requirements, specifications and drawings listed on that order. Tests to substantiate this have been performed in our and/or by our supplier and reports are available upon request from us and/or our suppliers.

**9. Physical and Chemical Analysis Report** – Supplier shall provide actual results of chemical/physical test conducted on material submitted. Test reports shall identify applicable material specification and test conducted and shall include test results and material lot control number.

**10. Supplier Qualification** – All suppliers to ATEI shall be qualified according to the ATEI's qualification process defined in our AS9100/ISO9001 Quality Management System. Suppliers may be asked to complete a Supplier Survey and/or successfully pass an onsite survey/audit conducted by ATEI.

**11. Verification or Validation Activities** - ATEI issued purchase orders may indicate what verification or validation activities that the organization, or its customer, intends to perform at the external provider's premises.

**12. Workmanship** – Supplier shall ensure a consistently high-quality workmanship. Workmanship shall be monitored to assure that purchase order and specification requirements are being maintained.

**13. Foreign Object Debris / Damage** – Supplier shall develop and maintain a Foreign Object Debris/Damage (FOD) Prevention Program to prevent introduction of foreign objects into any item delivered under this purchase order. Po's related to Lockheed Martin products include the requirements for Quality Clause Q4R Foreign Object Debris Damage (FOD) Prevention, ref. AS9146, Foreign Object Damage (FOD) Prevention Program - Requirements for Aviation, Space, and Defense Organizations.

**14. Material** – Suppliers shall provide evidence of compliance to ITAR, ROHAS, DPAS/DFARS including DFARS Subpart 225.1 and 225.2 when applicable.

[https://www.acq.osd.mil/dpap/dars/dfars/html/current/225\\_1.htm](https://www.acq.osd.mil/dpap/dars/dfars/html/current/225_1.htm)

[https://www.acq.osd.mil/dpap/dars/dfars/html/current/225\\_2.htm](https://www.acq.osd.mil/dpap/dars/dfars/html/current/225_2.htm)



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15. **Digital Data** - When a Seller uses digital data provided by Aero-Tech as authority for design and/or inspection, then the Seller must be approved for Digital Product Definition and complies with the requirements AQF-079 DPD MBD Checklist. Seller recognizes that prior to the receipt of digital data a proprietary information agreement must be on file with Aero-Tech Engineering.

16. All material, parts and/or assemblies ordered herein shall be to the latest respective applicable engineering drawings and/or specifications unless specific revision numbers or drawing issues are shown on the purchase order. Aluminum Extrusion Tolerances shall be in accordance with ANSI H35.2.

## 17. Lockheed Martin Aeronautics Company Purchase Orders

a. Processing to be accomplished in performance of this purchase order that is directly related to a Lockheed Martin Aeronautics Company purchase order and must be accomplished in accordance with process specification(s) on this purchase order and the revision in effect as of the date of this PO of Lockheed Martin Aeronautics Company Appendix QJ. All requirements of such Appendix QJ paragraphs E & F.

E. Purchase Order Flow-Down Requirements - Process Source shall ensure all sub-tier Process Source(s) purchase orders and/or associated purchase order documents for Buyer-controlled processes include the following data elements:

1. Process Source's unique LM Aero identification number ("vendor code") and all LM Aero unique "process codes" for each Buyer controlled process to be performed
2. a statement with the words, "Processing to be accomplished in performance of this purchase order is directly related to a Lockheed Martin Aeronautics Company purchase order and must be accomplished in accordance with process specification(s) on this purchase order and Lockheed Martin Aeronautics Company Appendix QJ"
3. a statement that sub-tier Process Source must file and maintain a copy of all purchase orders containing the above statement and make these available for review by Buyer, upon request
4. a statement that sub-tier Process Source must submit a Certificate of Conformance ("C of C") with a unique certification number in accordance with paragraph F "Certificate of Conformance."
5. a statement requiring sub-tier Process Source to identify specification(s) title, specific revision level(s) and drawing(s) requirement(s) to be performed by a QCS-001 source.

F. Certificate of Conformance (C of C) Requirements

1. The QCS-001 Processing Source shall prepare a Certificate of Conformance ("C of C") asserting that the Items contained within this shipment are in total compliance with the requirements of this PO. A copy of the C of C shall be included in the delivery package, with process specification exceptions (e.g. pre-clean, stress-relief/bake, etch, etc.) annotated on the C of C.

2. The Process Source C of C prepared for each shipment shall include the following data elements / information:

- a. Title, specification number (including revision letter) and QCS-001 process code of the process



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- b. Name and address of the process facility,
- c. Buyer's assigned processor number,
- d. Date the C of C was issued,
- e. Purchase order and purchase order part number,
- f. Quantity of parts (to include quantity accepted/ rejected),
- g. Signature and title of authorized quality agent of Process Source,
- h. Fracture durability classification or serialization per customer PO.

b. **COUNTERFEIT PARTS** - Seller shall establish and maintain a Counterfeit Parts / Material Prevention and Control Plan using AS6174 and/or AS5553 (for electronic components) to ensure that Counterfeit Parts is not delivered to Buyer. Reference Lockheed Martin Appendix QX, when applicable.

c. **A83 NOTE, "ENGINEERING SPECIFICATION REQUIREMENTS"**

(a) SELLER shall comply with latest revision, as of the effective date of this Contract, for all databases, specifications, and other documents set forth in this clause unless a specific revision number is referenced. If a specific revision number is referenced SELLER shall comply with the specified revision. The requirements set forth in the databases, specification, or other documents herein are incorporated into this Contract by reference.

(b) The databases, specifications, and other documents set forth in this clause are LOCKHEED MARTIN Proprietary Information and as such are protected in accordance with the Proprietary Information Agreement (PIA) executed between the parties.

(c) SELLER shall include the requirements of this ENGINEERING SPECIFICATION REQUIREMENTS (A83 Note) in lower tier subcontracts for the delivery of items that will be included in or furnished as Work to LOCKHEED MARTIN.

(d) The following requirements are only applicable to LOCKHEED MARTIN designed parts.

(i) Engineering Materials and Approved Products (EMAP) (Applicable to all programs except F-16, F-2 and T-50)  
Location: LOCKHEED MARTIN external web page: <https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/aeronautics/engineering/engineering-materials-approved-products-emap-design-support-database.html> "Engineering Materials & Approved Products (EMAP)."

(ii) Material and Process Specifications (Applicable to all programs)  
Location: LOCKHEED MARTIN external web page: <https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/aeronautics/engineering/material-process-specifications-all-programs.html> "Material & Process Specifications – All Programs."

(iii) Parts Classification & Management (PCM) (Applicable to all programs) (PCM has replaced the Preferred Parts Handbook (PPH) and the Design Support Database (DSD).)



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Location: LOCKHEED MARTIN external web page: <http://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/aeronautics/engineering/engineering-parts-classification-and-management--pcm-.html> "Engineering Parts Classification and Management"

(iv) F-35 Approved Manufacturer List for Standard Parts (Applicable to the F-35 program only) (Provided via either PCM set forth in Section d(iii) of this clause or Specification Document 2GNA00001)

Location: LOCKHEED MARTIN JDL: <http://www.myexostar.com/Lockheed-Martin-Aeronautics/> . Under JSF Data Library (JDL) search for 2GNA00001.

The latest copy is always in the Standard Part Drawings Released Data vault in the JDL (under the Released Data Vaults entry).

The approved manufacturers for parts for the F-35 Program are set forth in 2GNA00001. The approved manufacturers listed are approved only for the listed source or part number. The sources or manufacturer part numbers are approved only when made by the manufacturer listed on the drawing revision specified. Callout part numbers that do not appear in this list are not approved for use on the program and have no approved sources.

## Identification Marking Guide for LM Aeronautics Parts (Applicable to all programs)

d. Aero-Tech Suppliers that manufacture/process parts on Lockheed Martin products, the sub-tier will produce a First Article Inspection in accordance with Lockheed Martin Quality Clause Q2A (current revision).



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18. **GKN Purchase Orders** – Purchase orders issued to sub-tiers vendors for manufacturing or processing of GKN customer orders will invoke GKN Quality Clauses 1,2,3,4,6,7,8,16,20 and 21. Customer must be identified on the purchase orders. <http://www.gkn.com/aerospace/supplier-info/alabama/pages/quality-information.aspx>

**Additional GKN requirements are as follows:**

a. Terms & Conditions “CORDOC3A” “G” DOD FAR supplement the requirements for this purchase order are covered by the GKN supplier quality manual, the supplier quality manual can be found at <http://www.gkn.com/aerospace/supplier-info/alabama/Pages/Quality-Information.aspx>

b. (DFARS) Flow down clauses reference title (a) 252.225-7014 Preference for domestic specialty metals and ALT I (applicable if the work to be furnished Contains specialty metals.)

c. Lockheed Martin Flow Downs; Q2A First Article Insp , Q4R FOD Prevention.

d. Flow down of engineering specification requirements; The current revision, in effect as of the date of this purchase order, of each of the following specification Documents, is hereby incorporated into this purchase order by this reference

- I. Engineering purchasing specification (eps) manual
- II. C130 specification contents list
- III. F-22 and F-35 materials & process engineering specs
- IV. Preferred parts handbook (pph)

V. F-22 and F-35 parts procurement manual (ppm)

VI. Standard process specification (stp)

VII. Process specification and process bulletins

e. Standard material specifications (STM) Seller hereby agrees that (1) it has obtained or will timely obtain from buyer each of such specification documents listed in 1 through 8 above and (2) in performance of its obligations in connection with this purchase order; seller shall comply with such specification documents and all other requirements of this purchase order unless seller is otherwise directed by buyer.

f. The EPS Manual, C130 specification contents list, F22, F35 Materials & process engineering specifications & standard parts document, items 1 through 3, can be accessed on the Lockheed Martin company – material management website at <http://www.lmaeronautic.com/material-management/>. A download version of Lockheed Martin Aeronautics company specification documents 4 through 8, are not available online and must be obtained from the buyer.



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g. Seller must have an appropriate fully executed non-disclosure agreement (NDA) with GKN aerospace. Seller shall include the language of all of the above text, starting with the title flow down of engineering, Specification requirements, in its entirety, including this Paragraph, in seller's purchase orders with its suppliers with instructions for it to be inserted in purchase orders at every tier where seller or its suppliers at any tier may elect to use a buyer approved source for controlled processes. Buyer approved sources and controlled processes can be found on the Lockheed Martin Aeronautics Company material management website at <http://www.lmaeronautic.com/material-management/>.

19. Sellers to Aero-Tech for machined parts (excluding special processing) shall perform First Article Inspections (FAIS) in accordance with AS/EN/SJC 9102. A new FAI will be performed anytime one of the following occurs:

- a. A change in design affecting fit, form, or function of the part.
- b. A change in manufacturing source(s), processing source(s), process(es), inspection method(s), location of manufacture, tooling, or materials, that can potentially affect fit, form, or function.
- c. A change in numerical control program or translation to another media that can potentially affect fit, form, or function.
- d. A natural or man-made event, which may adversely affect the manufacturing process.
- e. A lapse in production for two years or as specified by the Customer.

20. Seller shall also notify Buyer upon any sale, relocation, or transfer of Seller's manufacturing operations or upon any change in the quality organization, process or procedures that could affect conformity verification of Items. When at all possible, notification by Seller shall be made to Aero-Tech Engineering 30 days before changes take effect or as soon as the Seller is aware of the change.

21. Aero-Tech suppliers (external providers) will take all precautions necessary to prevent the use of counterfeit parts.

22. Aero-Tech suppliers (external providers) will ensure persons that participate in the provided activities are aware of their contribution to product or service conformity, their contribution to product safety and the importance of ethical behavior.

23. **Approval and Release of Product and Services** - External providers (suppliers) will only approve and release products and services when all the requirements of the purchase order are completed.

24. Aero-Tech external providers will ensure that their personnel who produce products or preform services are competent in producing the product or providing the service, to include any required qualifications per the requirements provided on ATEI purchase orders.



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25. Control and Monitoring of External Providers' Performance. ATEI will control and monitor external providers performance in quality of products and on-time delivery. If these performance indicators do not meet our requirements, external providers maybe contacted.

26. Calibration suppliers (vendors) shall perform services to applicable National Institute of Standards and Technology (NIST), and ISO/IEC 17025 - General requirements for the competence of testing and calibration laboratories, ISO 10012 - Measurement management systems -- Requirements for measurement processes and measuring equipment, ANSI/NC SL Z540-1 - Calibration Laboratories and Measuring and Test Equipment - General Requirements, ANSI/NC SL Z540-2 - U.S. Guide to the Expression of Uncertainty in Measurement, as applicable

27. **STAMP CONTROL** - Supplier shall have documented process for the control and use of inspection and process stamps. The design of supplier stamps shall be such that process and inspection stamps are distinctly different. Inspection stamps shall be designed to identify the supplier and the supplier's inspector who affixes the stamp.

a. Application of Acceptance Authority Media (AAM):

1. Seller shall comply with the AS/EN/JISQ 9100 requirements and 14CFR Part 21.2 regarding the application of the Acceptance Authority Media (AAM) requirements.
2. Seller shall, within its organization and its supply chain, ensure that the use of AAM is clearly defined within its Quality Management System (QMS).
3. Seller shall, upon Boeing request, be able to demonstrate evidence of communication to its employees and to its supply chain; use of AAM must be considered as a personal warranty of compliance and conformity.
4. Seller shall maintain compliance to the AAM requirements by assessing its process and supply chain as part of its internal audit activities. The areas of focus of this assessment shall include but not limited to:

a) Authority Media Application Errors (i.e. Omission, Typos, Legibility, etc.)

b) AuthorityMedia Application Untimely Use (i.e. Documentation is not completed as planned,

“Stamp/Sign as you go”, etc.)

c) Authority Media Application Misrepresentation (i.e., uncertified personnel, Falsification of documentation, Work not performed as planned, etc.)

d) Authority Media Application Training Deficiencies (i.e. Ethics, Culture awareness, Proper Use of authority media, etc.)





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## 28. AS9100 Para 8.4.3 m) Flow Down Requirements

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

## 29. Sikorsky SSQR-01 Para 21.00 Control of Subtier Suppliers

Where Sikorsky owns the design of an article purchased from a supplier: The supplier shall include the following statement on sub-tier purchase orders: "This article is for Sikorsky "end use" and shall be controlled per applicable PO requirements."

Source Inspection: The Supplier shall clearly define procedures and instructions for source inspection activities to be performed by their representative and/or their designated representative.

Audit Inspection Process: The Supplier shall have a documented procedure for audit inspection of source inspected or first level sub-tier supplier ATR program product. Sikorsky SQA approval is required prior to the implementation of audit inspection and all revisions to approved audit plans must be submitted to Sikorsky SQA for re-approval. Audit results shall be used as a basis for establishing the level of control to be implemented.



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## REVISION HISTORY

Rev 19 - 11/6/2018: Updated section 10 and 15

Rev 20 - 1/7/2020: Updated section 26

Rev 21 - 8/6/2020: Updated section 5 and 14 adding links for DFARS

Rev 22 - 9/2/2021: Added section 28 "AS9100 Para 8.4.3 m) Flow Down Requirements"

Rev 23 - 3/14/2022: Added "Our Customer" to Para 1. Para 7 add +1 Year and Sikorsky 40 years requirement. Para 10 removed date from ISO9001. Para 13 added AS9146. Modified Para 17 the Lockheed Appendix QJ requirements to match Revision 8 DTD 7/21/2020. Para 17 b. Complete rewrite. Para 17 c. Modified to comply with the latest version of A83 requirements. Para 26 Modified to add addition calibration standards. Para 29 added to comply with Sikorsky SSQR-01 section 21.

Rev 24 - 2/27/2023: Para 16, added "Aluminum Extrusion Tolerances shall be in accordance with ANSI H35.2."