



E. A. Patten Company 303 Wetherell Street Manchester, CT 06040

SUPPLIER QUALITY REQUIREMENTS

Purchase orders issued to Suppliers / External Providers are subject to the following minimum supplier quality requirements, to be used in conjunction with CAM (Consolidated Aerospace Manufacturing) Purchase Order Terms and Conditions for Suppliers available at: <https://www.camaerospace.com/resources>.

1.0 AS9100 Quality Management Systems Requirements for Aviation, Space and Defense Organizations. This includes contracted suppliers that perform or outsource manufacturing of aerospace hardware.

1.0.1 [ISO9001:2015/Amd 1:2024](#) Climate action changes. Ref. IAF/ISO Communique.

1.1 AS13100A AESQ Quality Management System Requirements for Aero Engine Design and Production Organizations and AS9145 Advanced Product Quality Planning and Production Part Approval Process.

1.2 *Pratt & Whitney [ASQR-01 Rev 15 Aerospace Supplier Quality System Requirements](#).*

1.2.1 [RTX Flowdown of U.S. Government Contract Clauses Under U.S. Government Contracts1](#).

1.3 *Collins Aerospace [COL-ASQR-PRO-0003-06](#) and [HSM17 Rev AD, HSM19, and Collins/UTAS Wroclaw INSTRUKCJA NR 11-15 Supplier Quality Requirements](#).*

1.3.1 [HS Marston QA1019 Rev 9 Supplier Quality Requirements](#).

1.4 *Boeing [D6-82479 QMS Requirements for Suppliers](#) and [D6-87282 QMS Requirements](#).*

1.4.1 Clause SQ17 Supplier must provide certificates) of conformity in accordance with AS9163 ("Certificate of Conformity Requirements").

1.4.2 Clause SQ18 Pack slip requirements for shipments to Boeing the Supplier must include the following statement on the pack slip on all shipments to Boeing: "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."

1.5 *Mitsubishi [ISQR-01 Industrial Supplier Quality System Requirements](#).*

1.6 *Spirit Aerosystems sub-tier suppliers and contractors shall be compliant to, as applicable:*

1.6.1 [PF-100 Purchase Order Provisions Defense/All Commodities](#).

1.6.2 [MAA1-10042-1 Supplier Quality Assurance Manual](#).

1.6.3 [Appendix QX10 Supplier Quality Requirements](#).

1.6.4 [Spirit Aerosystems FAR DFARs Flow Downs](#).

1.6.5 [Applicable Terms and Conditions](#).

1.7 [CAM Supplier Annual Offeror Representations and Certifications Form](#). Potential suppliers (less COTS suppliers) must answer the questions on the form for CAM companies to evaluate whether they qualify as a supplier to supply goods or services in support of a US Government contract.



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1.8 Suppliers and their subtiers shall be compliant or certified as required by an industry recognized and accredited QMS Certification Body for the associated scope(s) of work:

ORGANIZATION TYPE	QMS COMPLIANCE
(Type 1) Make to Print/Build to Print: Manufacture, inspect, test, and certify the conformance of semi-finished and/or finished products (installed on aerospace engines or a component of such a product) to proprietary engineering drawings.	<ul style="list-style-type: none"> -AS9100 registration *or -*AS9100 compliant for P&W end use parts -*ISO9001 or AS9100 registered or working towards for HS Marston -AS9100 registration for Collins -QA1019 compliant for HS Marston -AS9146 FOD Prevention Program compliant -AS6174 Counterfeit Part Prevention compliant -AS9145 APQP/PPAP compliant -AS13100 compliant for P&W end use parts
(Type 3) Distributor.	<ul style="list-style-type: none"> -AS9120 registration *or -*AS9120, AS9100, ISO9001 or IATF 16949 certified for P&W/Collins/HS Marston end use parts -On RTX QDL for Collins/P&W end use parts -AS9120 certified for Boeing end use parts -AS9146 FOD Prevention Program compliant -AS6174 Counterfeit Part Prevention compliant
(Type 4) Special Process. As part of an organization's <u>manufacturing scope</u> and/or Special Process Houses.	<ul style="list-style-type: none"> -Nadcap or Customer requirements. -AS9100 or Nadcap AQS AC7004 certified for P&W end use parts and Collins end use -AS9146 FOD Prevention Program compliant -AS6174 Counterfeit Part Prevention compliant -For Collins Aerospace be listed on Report 80/85
(Type 4) Special Process. Organizations and Suppliers <u>that only provide the following special processes on P&W products</u> : CP, CT, HT, MTL, NCMSE, NDT, WLD.	<ul style="list-style-type: none"> -to the appropriate NADCAP commodity and scope for P&W end use parts
(Type 4) Special Process.	<ul style="list-style-type: none"> -All other Organizations shall be certified to AS/EN/JISQ 9100 or Nadcap AC7004 for P&W end use parts -For Collins Aerospace be listed on Report 80/85
(Type 5) AS13100A - Raw Material. Manufacture, inspect, test, and certify the conformance of Raw Material to proprietary engineering specifications.	<ul style="list-style-type: none"> -ISO 9001 registration -AS6174 Counterfeit Part Prevention compliant -AS9145 APQP/PPAP compliant
(Type 5) COL-ASQR-PRO-0003-06) External Calibration or Laboratory Service Provider.	<ul style="list-style-type: none"> ISO/IEC 17025 or National Equivalent, e.g., UKAS, COFRAC, NIST. ISO/IEC 17025, ISO 10012, Nadcap AC7004 or by signatories to the International Laboratory Accreditation Cooperation (ILAC) for P&W end use parts. -Or Nadcap AC7006 for Collins
Industry Standard Part or Industry Standard Raw Material Manufacture.	<ul style="list-style-type: none"> -ISO 9001, AS9100 or IATF 16949 registration -AS9146 FOD Prevention Program compliant



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	-AS6174 Counterfeit Part Prevention compliant
Castings and Forgings Produced to a Proprietary Design.	-AS9100 registration -AS9100 compliant for P&WA end use parts -AS6174 Counterfeit Part Prevention compliant -AS9145 APQP/PPAP compliant

2.0 Supplemental Supplier Quality Requirements:

2.1 The Supplier shall notify E. A. Patten of changes to, or loss of, accreditation by any Customer or Regulatory body within two working days.

2.1.1 The supplier shall notify E. A. Patten of any significant change in their Quality Management System or business operations.

2.2 The supplier shall plan, implement, and control counterfeit part prevention processes in accordance with AS9100 and AS6174.

2.2.1 The supplier shall ensure that the counterfeit part prevention process includes a mechanism for reporting counterfeit parts to the organization’s purchasing representative within three working days of it being confirmed.

2.2.1.1 For P&W end use parts report counterfeit parts to the organization’s purchasing representative within 24 hours.

2.3 Supplier and Supplier’s Subtiers shall abide by the requirements of **Howmet Fastening Systems Supplier General Quality Requirements** located at <https://www.howmet.com/bu-supplier-information>.

2.4 Suppliers shall use customer-designated or approved external providers, including process sources (e.g., special processes).

2.5 For P&WA end use parts, the supplier shall be compliant to REACH European Regulations provisions. Visit <https://prattwhitney.com/company/EHS-and-sustainability/reach-and-materials-of-concern>.

2.6 The supplier shall not perform work transfers (temporary or permanent movement of the products or services from one manufacturing site to another or to a sub-tier) without prior written authorization.

2.7 Customers and regulatory authorities are provided right of entry and access to the company’s facilities and documented information.

2.8 EA Patten monitors supplier quality and on-time delivery at a minimum and will apply corrective action(s) when necessary.

2.9 Distributors are considered external providers and are required to flow applicable requirements to their supply base per Raytheon Technologies (RTX) [ASQR-01 Rev 15](#) and [AS13100](#) Table 1 and Table 2, Collins [COL-ASQR-PRO-0003-06](#) para 5.1.8; and [HS Marston QA1019](#).



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3.0 Supplier and Subtier Employee Competence and Awareness:

3.1 Supplier shall ensure that individuals performing calibrations and visual inspections have a visual acuity and color perception eye examinations performed by a medically qualified or trained individual per the applicable specification, when required.

3.1.1 Eye examination records shall be retained for each individual.

3.2 Suppliers shall ensure that their employees are aware of and understand:

- Their contribution to product or service conformity.
- Their contribution to product safety.
- The importance of ethical behavior.

4.0 Quality Control Records, Retention and Disposition:

4.1.1 Records of inspection, test, purchased materials, special processing, engineering changes, serial numbers, and other quality assurance activities shall be maintained and available for review by E. A. Patten personnel, its customers and/or regulatory agencies.

4.1.2 Such records shall be stored for not less than ten (10) years after completion of the purchase order contract for serialized and non-serialized parts, and forty (40) years after completion of the purchase order contract for critical safety items, unless otherwise specified on the purchase order.

4.1.3 Radiographs shall be stored per end use customer requirements.

5.0 Supplier Materials:

5.1 If more than one heat lot is used to produce product, then heat lot segregation must be maintained.

5.2 The procurement or use of any raw material, item, component, software, or service that is produced in the Republic of Turkey or by a Turkish source is prohibited.

5.3 Shelf-Life Controlled Materials: Material shipped to E. A. Patten Co. shall have a minimum of 75% remaining on the specified shelf life.

5.4 Mercury Free Materials: Materials furnished under the purchase order shall be certified as "Free of Mercury" in any form. Manufacturing processes, tests and inspections shall not come in contact with Mercury or any of its compounds, nor with any Mercury containing instruments. This requirement shall be flowed down to Sub-tier Suppliers.

5.5 Collins Aerospace requires all approved special process suppliers to procure conversion coating materials from QPL- 81706. When procuring approved material from the QPL, suppliers need to ensure the purchased materials were manufactured by the specific manufacturer, manufacturing location, exact product description, and product form as listed on QPL-81706. Suppliers shall also have documentation for each batch of material, validating the material and manufacturing location, product description and form match what is listed on the QPL.



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6.0 Build to Print Manufacturers, Distributors and Raw Material Suppliers:

6.1 Material and Special Process Test results shall reflect all requirements of the drawing and/or specification and conform to drawing and/or specification limits. Documented evidence of this conformity including listing of each material element or test result in the applicable test report.

6.2 The applicable test report shall be signed by a cognizant test laboratory person, clearly confirming which of the following is correct:

- All tests and inspections have been performed and results meet the drawing and/or specification requirements, or
- All tests and inspections have been performed and the results meet all the drawing and/or specification requirements, except _____, which does not meet requirements, or
- All tests and inspections have been performed and the results meet all drawing and/or specification requirements, except test(s) _____, which was not performed in accordance with the drawing and/or specification requirements.

7.0 Software Control:

7.1 Make to Print and Raw Material suppliers shall implement, document, and maintain a Software Quality Assurance program for all non-deliverable software per AS13100, [ASQR-01 Rev 15](#), and AS9125 Non-Deliverable Software, as applicable.

8.0 Supplemental Supplier Quality Requirements for U. S. Government End Use Customers:

8.1 Supplier must comply with the unique and special rules that apply to contracting with the US Government. If Supplier supports an E. A. Patten contract with the US Government, it must at all times follow the US Government's rules for competing fairly; honor restrictions applying to US Government employees (e.g. receipt of gifts and employment); deliver products and services that conform to specifications, laws, and regulations; adhere to government accounting and pricing requirements; claim only allowable costs; ensure the accuracy of data submitted; and comply with all other applicable US Government requirements. The requirements of FAR 52.203-13 Contractor Code of Business Ethics and Conduct shall apply.

8.2 Suppliers and Subcontractors shall comply with the requirements of [DFARS 252.204-7012](#) Safeguarding Covered Defense Information and Cyber Incident Reporting subpart (m) (2) and [DFAR 252.204-7021](#) Cybersecurity Maturity Model Certification Requirements to the extent applicable.

8.3 Supplier shall incorporate the applicable U.S. Government Contract Clauses to sub-tier subcontractors.

8.4 Supplier shall be compliant to NDIA Aerospace Industry Procedure Template Guideline for Property Management available at [Government Property Tools \(ndia.org\)](#), when required.



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9.0 Legal or Ethical Concerns:

9.1 Suppliers may anonymously notify the applicable party regarding legal or ethical concerns to:

9.1.1 E. A. Patten's Human Resources Director by email at acroasdale@eapatten.com.

9.1.2 Howmet Aerospace Integrity Line at [Howmet Aerospace | About Us | Our Fundamentals | Ethics and Compliance | Integrity Line](#).

9.1.3 Raytheon Technologies Compliance Office or ombudsmen. See Raytheon Technologies Supplier Code of Conduct at [Ethics and Compliance | RTX](#).

10.0 Supplier Evaluations:

10.1 Per AS13100, Supplier evaluations shall include the following topics, as applicable:

10.1.1 Engineering and manufacturing capabilities – capability to manufacture the product to be contracted and control changes to design and processes. This may be performed at quoting stage.

10.1.2 Quality control capabilities - capability to meet quality requirements and deliver conforming product.

10.1.3 Purchasing, planning and capacity - ability to meet current and future requirements considering all resources as well as management of the supply chain.

10.1.4 Commercial, legal, and environmental - ability to meet commercial, regulatory business and customer requirements. This may be performed at quoting stage.

10.2 External Provider Risk Assessments are calculated based on the supplier's:

- Quality
- On-Time Delivery
- Part Complexity
- Internal Audit Results. Supplier shall complete AS13100 RM13005 Annual Audit Report and submit to customers when requested.