

Globe Engineering Co., Inc.

P 1.6.001 Supplier Quality Assurance Procedure

Reviewed and Approved

Management Representative

REVISION TABLE

Revision	Description	Date
A	Updated clause G1 to match Boeing's H106 Clause. Clarified clauses P5, P6, P9, & P12.	9/29/14
B	Corrected grammatical errors, added statement requiring the English language in Section 3.4, Clarified clause G1 and Q5, Added Clauses Q12, Q13 and Q14. Removed Q11	2/23/15
C	Revised section 3.4 to specify after completion of PO. Revised P6 clause to clarify procurement requirements for raw materials. Added clause P17 Boeing 30M Supplement Requirements. Added clause P18 Bell Helicopter 299-100-837 Requirements. Added clause Q15 Pre-clean prior to Heat Treatment	2/11/16
D	Added clause P19. Revised clause Q8 to align with Revision 8 of Lockheed's Appendix QJ & QX. Revised clause Q13 to list the requirements of HSM17, HSM19, Report 80 and Report 85. Added "Vought Aircraft Division" in the title of clause Q14.	8/22/16
E	Added clause Q16. Revised clause Q13 to remove reference to Sikorsky and Schweizer as these companies were sold to Lockheed. Revised the title of clause Q7 to remove reference to QR6A as Carleton now defines this requirement in QSP-7.4.2.2.1. Revised clause P11 to include reference to EMCM-001. Revised clause P19 to include reference to the UTC Qualified Distributors List. Revised Sec 5.6 to include the requirement to implement a Counterfeit Parts Prevention Program in accordance with AS6174 and AS5553. Revised FAI requirements section 3.5	12/15/17
F	Added AS9120 and ISO17025 to para. 2.1, removed reference to obsolete revisions throughout, added para. 3.6 & 3.7, and deleted clause Q1	8/1/18
G	Updated hyperlinks throughout this document, revised para. 3.4 and 6.3. Updated clauses G2, P11, Q6, Q7, and Q13. Added clauses Q17, Q18 and P20, and added note 17 to section 8	8/25/22
H	Revised clause P19, added P21 and Q19.	6/8/2023
I	Added clauses P22 and Q20	2/9/2024
J	Updated hyperlinks throughout this document, revised clauses P2, Q14, P14, and added P23	9/16/2024

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Referenced Documents

- SAE AS9100 Quality Management Systems – Aerospace - Requirements
- SAE AS9102 Aerospace First Article Inspection Requirement
- SAE AS9120 Management Systems-Aerospace Requirements for Stockist Distributors
- SAE AS9003 Inspection and Test Quality System
- ISO 9001Quality Management Systems – Requirements

Section 1 Globe Engineering Supplier Quality Assurance Manual

Overview

The strategic goals of this manual are to communicate:

1. Globe Engineering's Quality System Requirements and Policies
2. The criteria by which Suppliers will be qualified, measured and compared vs. their commodity peers
3. The First Article Inspection Requirements for Globe Engineering
4. Delivered product requirements, the management of Supplier nonconforming product and Supplier product escapes
5. Facilitation of effective corrective / preventive actions for purchased parts, materials and / or audit and survey findings identified by Globe Engineering and or its Customers
6. Actions related to Supplier performance improvement and potential Supplier termination

Section 2 Supplier System Requirements, Assessments and Approvals Overview

Globe Engineering maintains an Approved Supplier List (ASL) as a basis for identifying direct part / material and processing Suppliers who meet the standards necessary to fulfill its procurement needs.

2.1 Quality System Requirements

To be considered eligible for the Globe Engineering Approved Supplier List (ASL), prospective Suppliers must have a Quality and Calibration System meeting the following criteria as applicable: AS9100, ISO 9001, AS9120, ISO17025, Nadcap or approval to Globe Engineering form GE-6-2 survey.

Changes to a Supplier's ownership, facility location or changes in senior Quality management or any changes affecting the Quality Management System may subject a Supplier's Quality System to reexamination by Globe Engineering. Suppliers shall notify Globe Engineering of any of the changes noted above within 48 hours.

Once added to the Globe Engineering ASL, the Supplier must continue to demonstrate an acceptable level of performance in order to remain eligible for new business and to maintain their approved status.

2.2.1 Customer-Directed Sources

Suppliers of direct components / materials and / or outside processing services who are directed for use by one or more Globe Engineering Customers will be added to the Approved Supplier List (ASL). Customer-directed sources may also be required to complete a Globe Engineering Assessment (GE-6-2).

2.2.2 Maintenance of Approved Supplier Status

Globe Engineering will monitor Supplier performance on a semi- annual basis. Suppliers who demonstrate continued unsatisfactory performance may be subject to formal Supplier Corrective Action Requests and / or other more extensive performance improvement actions. In those cases where Supplier performance does not respond to this action, Suppliers may be subject to increased inspection requirements, additional audit oversight or the loss of approval status.

Suppliers shall notify Globe Engineering of the loss of Quality System registration, FAA or Nadcap approvals, or any major Nadcap nonconformance that has been designated as having “product impact” that may affect any Globe Engineering products.

Suppliers may also lose their Globe Engineering approved Supplier status for failing to maintain their appropriate Quality System, FAA or Nadcap registrations or for any other significant quality related issues.

Disapproval of a Supplier on the basis of Quality System failures shall ultimately be the decision of the Globe Engineering Quality Manager.

Section 3 Supplier Responsibilities

Overview

Globe Engineering identifies and applies specific requirements via the purchase order and this Supplier Quality Assurance Manual. In addition to identifying the applicable technical requirements as specified within engineering drawings / blueprints, material and processing specifications, etc., Globe Engineering purchase orders may contain a number of additional Quality Assurance Requirement clauses. These clauses detail requirements for information flow-down to sub-contractors, document and data controls, sub-tier Supplier controls and record retention.

Acceptance of the purchase order constitutes acceptance and accountability for achievement of all requirements listed on the purchase order and the requirements contained herein. The review shall be consistent with the requirements of AS9100.

It is the Supplier’s responsibility to perform an in-depth review of the Purchasing Documentation to ensure that the Supplier can and will comply with the requirements therein. It is also the Supplier’s responsibility to request or otherwise obtain subordinate documents, specifications and data referenced within the Purchasing Documentation. Failures resulting from a lack of review and / or compliance with

subordinate requirement documents will be considered the responsibility of the Supplier. Any requests or deviation shall be forwarded to Globe Engineering for agreement or re-assignment of the Purchase Order. The Supplier must obtain any agreements deviating from the issued Purchase Order in writing. No verbal agreements will be recognized under any circumstances and all liability as a result of the Supplier accepting verbal changes to the Purchase Order shall be the responsibility of the Supplier.

Changes to the Quality Requirements must be concurred with the respective Globe Engineering Supplier Quality representatives. Procurement Representatives do not hold the authority to modify, rescind or otherwise alter Globe Engineering Quality Requirements.

3.1 Quality Assurance Requirements

Globe Engineering purchase orders for direct parts / materials and outside processing services will include a number of clauses relating to specific quality assurance requirements. Additional applicable Quality Assurance Requirements or quality clauses may be assigned on a part number or contract number basis and are identified on Globe Engineering purchase orders.

The Quality Assurance Requirements selected for individual purchase orders will vary based upon a number of factors including the criticality of the procured part/material and the needs of individual programs and Globe Engineering Customers. Applicable Quality Assurance Requirement clauses are assigned and are identified uniquely on Globe Engineering purchase orders.

Suppliers are expected to review all applicable Quality Assurance Requirements and clauses as a part of their Contract Review and Quality Planning processes. Requirements imposed by Quality Assurance Requirements are contractual and shall be integrated into the Supplier's Quality Systems and / or product-specific planning and related controls to ensure consistent compliance for all parts / materials supplied.

At the discretion of Globe Engineering, the Supplier may be required to submit a formal Quality Plan that specifically addresses how the Supplier will comply with the flowed-down requirements. The Quality Plan need only identify those processes that are not already specifically covered within the Supplier-established Quality System.

3.2 Sub-Tier Supplier Controls

It is the contractual requirement of Suppliers to ensure items procured to support Globe Engineering purchase orders meet and conform to all specified requirements. Globe Engineering does not authorize delegated product inspection on behalf of the Supplier without written approval.

3.2.1 Requirement Flow-Down

The Supplier shall be responsible for flow-down of all the requirements and provisions of the Globe Engineering purchase order and this document to the Supplier's sub-contractors. Deviations to this document or the Globe Engineering purchase order are not authorized without consent. When Customer-specific documents or special process requirements are flowed-down to the

Supplier, the Supplier shall also flow-down the same documents and special process requirements to their sub-tier Suppliers as applicable to the process / service being provided to the Supplier by its sub-tiers.

3.2.2 Sub-Tier Supplier Management by Globe Engineering Suppliers

Globe Engineering Suppliers are responsible for management of their subcontractors. This management shall include compliance to Globe Engineering required quality system standards, in addition to acceptable quality performance. AS / EN9100, AS 9120, AS9003, AC7004 and ISO 9001 all require Suppliers to provide purchasing information to their suppliers that adequately describes the product to be purchased. It is recommended that Suppliers provide specific information in lieu of general reference to specification or documentation.

3.2.3 Globe Engineering Suppliers Management of Sub-tier Suppliers

It is strongly recommended that Suppliers to Globe Engineering utilize sub-tiers that are certified to AS / EN 9100, AS 9120, AS9003, AC7004 or ISO 9001 by a recognized RAB agency. Sub-tier Suppliers can be categorized as compliant if a compliance audit is performed by the Supplier and the results are available for review by Globe Engineering. Any risk of utilizing sub-tiers without the recommended Quality System capability shall be borne solely by the Supplier. If a Supplier moves work from one sub-tier to another, the Supplier must have a process in place to control the transfer (ref AS 9100) or the transfer must be communicated with Globe for review and approval.

3.2.4 Special Process Approvals

Globe Engineering Suppliers shall use only an end item customer-approved special processing Supplier. Globe Engineering Suppliers and their sub-tiers are responsible to ensure that only approved process sources are used. When required, Nadcap-approved processors shall be utilized.

Customer approval does not assure or imply that work performed by a processor on said Customer's approved processor list is acceptable. Globe Engineering Suppliers and their sub-tier Suppliers are responsible to assure that a processor meets all contract, purchase order, drawing and process specification requirements. When processors are not designated, the Supplier must approve the processor and the Supplier becomes responsible for the processor's performance as an approved Supplier.

3.3 Drawings Specifications and Quality Requirements

The Supplier's Quality System shall assure that the applicable drawings, specifications, and quality requirements revisions are compatible with current purchase order agreements and are available and in use by the Supplier's manufacturing and inspection areas. Military Standards and Specifications utilized shall be to the latest revision in effect on the date of Process or Manufacturing Process Performance, unless otherwise specified.

Globe Eng. Co., Inc. Quality System Procedure
Revision: J

For specifications controlled by OEM and / or industry sources, Globe Engineering has a link on the company website with a master list of all specifications, titles and revisions. Suppliers shall use the applicable specification revision referenced on Globe's master list at the time the purchase order is placed. Suppliers may contact Globe Engineering Supplier Quality representative for information in regards to OEM or industry web access points where the required revisions are available.

It is the responsibility of the Supplier to notify Globe Engineering when Engineering does not agree with the revision data referenced in Globe's master specification list. Product or process nonconformance resulting from the failure of the Supplier to notify Globe Engineering shall be deemed the Supplier's responsibility.

3.4 Records Retention

The Supplier shall maintain adequate records of all inspections and tests per Globe Engineering Purchase Order requirements. As appropriate, the records shall indicate the nature and quantity of non-conformances, the quantities approved and rejected the nature of corrective action taken and the final buy-off by Quality personnel. This information and all supporting documentation, such as raw material certifications, special processing records and certifications, manufacturing records, e.g., routers and travelers, shall be retained and remain continually accessible at no cost to Globe Engineering by the Supplier in accordance with the terms of the purchase order. All such records, contractual documents, correspondence, invoices, notices, and any other related documents shall be in the English language.

Quality records must be maintained on file for a minimum of ten (10) years after completion of the purchaser order (unless otherwise specified) and readily retrievable upon request. Records for JSF (Joint Strike Fighter) and SAAB product must be maintained indefinitely. Records for JSF or Saab product cannot be destroyed without prior written consent from Globe Engineering's Quality.

Globe Engineering shall be notified prior to destruction of any of the noted records. The supplier agrees to transmit to Globe Engineering those records kept in support of Globe Engineering work, in the event that the supplier discontinues business operations.

3.5 First Article Inspection (FAI)

The Supplier shall perform an FAI per AS9102 on a representative item from the initial manufacturing lot at the detail, subassembly and/or assembly level.

Note: FAI process does not apply to standard catalogue hardware or Commercial-Off-the-Shelf (COTS), unless these items are modified from their intended design.

Partial or Re-accomplishment FAI shall be performed per AS9102, when changes occur that potentially affects fit, form or function.

1. Changes in design characteristics
2. Changes in manufacturing process (i.e. sources, machines, locations, tooling, natural or man-made event and after implementation of corrective actions)

3. Changes in inspection process
4. Lapse in production greater than two years
5. On Buyer's request

A copy of the suppliers FAI report shall be sent with each initial shipment of each part number.

All FAI reports shall be maintained on file in accordance with paragraph 3.4. Globe Engineering reserves the right to request FAI reports at any time, at no additional cost.

3.6 Awareness

Suppliers shall ensure that persons performing work per this Purchase Order are aware of their contribution to product or services conformity, their contribution to product safety and the importance of ethical behavior.

3.7 Property Control System for Furnished Items

Suppliers shall identify, store, and maintain furnished property (material, tooling, etc.) per Globe's P1.7A.

Section 4 Right of Access

4.1 Globe Engineering and its Customers or Regulatory Bodies Right of Access

Globe Engineering, Globe Engineering customers, and regulatory agencies shall be allowed right of access to determine and verify the quality of work, records and material at any place, including the plant of the supplier and those of any subcontractor, where work is performed on parts for Globe Engineering. Suppliers shall include the provisions of this facility access requirement in its purchase orders with its subcontractors.

Section 5 Delivered Product Requirements

Overview

Supplier-responsible non-conformances are defined as any violation of a specified contractual requirement imposed by a Globe Engineering purchase order.

This includes technical engineering requirements defined on blueprints, specifications, etc. as well as requirements for Certificates of Conformance, quantified test results, use of appropriately qualified sources, special part / material identification requirements, or any other requirement imposed by Globe Engineering Quality Assurance Requirements applied to the subject purchase order. Verbal

communication and emails are not acceptable methods of communicating purchase order / contract requirements.

5.1 Non-Conforming Product

When a supplier has discovered that non-conforming product has been delivered to Globe Engineering, the supplier shall notify Globe Engineering within 24 hours, followed by written notification detailing pertinent information regarding the discrepant parts. Such notifications shall describe the affected part numbers, the specific nonconforming conditions, and the scope of the escape, the quantities affected, applicable part serial number / batch / lot identification information, and the availability of replacement stock. Any similar goods held by the Supplier shall be inspected and, when found nonconforming, contained to prevent shipment. Supplier root cause and corrective action will also be initiated immediately and submitted with the notification form.

Non-Conforming product manufactured from Globe Engineering supplied material will be segregated, tagged and returned to Globe Engineering along with the Supplier's completed internal non-conformance report. Documented cause and corrective action is required.

Suppliers are not authorized to disposition non-conforming product unless permission is granted in writing by Globe Engineering Co., Inc.

5.2 Product Verification

Verification by Globe Engineering shall not absolve the supplier of the responsibility to provide acceptable product, nor shall it preclude subsequent rejections by Globe Engineering.

5.3 Evidence of Inspection

A signed certificate of conformance (C of C) shall be provided with each shipment as evidence of 100% inspection. Sampling inspection shall not be performed without prior written approval from Globe Engineering and/or our customer. All certifications of conformance shall be traceable to the material submitted and at a minimum shall contain:

- 5.3.1 Supplier's name
- 5.3.2 Supplier's address
- 5.3.3 Purchase order number
- 5.3.4 Purchase order item number
- 5.3.5 Drawing and/or specification number and revision
- 5.3.6 Quantity delivered

Product deliveries that have been subjected to Aerospace Industry-designated "Special Processes" shall at a minimum be accompanied by the Processor's Certification for the Special Process or the following:

5.3.7 Name of Special Process facility

5.3.8 Address of Special Process facility

5.3.9 Special Process designation, nomenclature, and revision

5.3.10 Date that Special Process was performed

When Globe Engineering purchase order requirements exceed the requirements of 5.3, the purchase order requirement shall take precedence.

5.4 Statistical Techniques

When required by Globe Engineering contract, the supplier shall implement statistical techniques for applicable key characteristics or processes. Records shall be maintained per para 3.4 and made available upon request.

5.5 Packaging and Handling

In performance of the contract, the Supplier shall assure that all articles are packaged in a manner and with materials necessary to prevent deterioration, corrosion, or damage.

When specific packaging requirements are flowed down to Globe Engineering by their Customer, the same requirements shall be flowed to the Supplier.

Distributors must include certification traceable back to the OEM.

5.6 Prevention of Counterfeit Parts

Suppliers are responsible for ensuring no Counterfeit Work is delivered to Globe Engineering. Suppliers are responsible for developing and implementing a Counterfeit Parts Prevention Program in accordance with AS6174 and/or AS5553 as applicable. Suppliers shall provide only products purchased directly from the Original Equipment Manufacturer (OEM) or from an authorized distributor of the OEM.

"Counterfeit Work" means work that is or contains items misrepresented as having been designed and / or produced under an approved system or other acceptable method. The term also includes approved work that has reached a design life limit or has been damaged beyond possible repair but is altered and misrepresented as acceptable.

Counterfeit Goods delivered or furnished to Globe Engineering are deemed nonconforming. If Seller becomes aware or suspects that it has furnished Counterfeit Goods to Globe Engineering, the Seller shall notify Globe Engineering within 24 hours and replace, at Seller's expense, such Counterfeit Goods with OEM or Globe Engineering-approved Goods. Seller shall be liable for all costs related to the replacement of Counterfeit Goods and any testing or validation necessitated by the installation of authentic Goods after Counterfeit Goods have been replaced.

5.7 Metallic Raw Material Requirements

Non-Domestic material supplied against this contract must be purchased from approved sources of the end item users (Globe Engineering's Customer). DFARS Clause 252.225-7009 Restriction on Acquisition of Certain Articles Containing Specialty Metals is a requirement of Globe Engineering and should be flowed down to any sub-tier suppliers used by your company in manufacturing items for Globe.

<http://www.acq.osd.mil/dpap/dars/dfars/html/current/252225.htm#252.225-7009>

A list of qualifying countries can be found at this address:

<https://www.acq.osd.mil/dpap/dars/dfars/html/current/252225.htm>

Section 6: Corrective Action, Continuous Improvement, and FOD Prevention

Overview

Globe Engineering requires its Suppliers to employ a closed loop, Corrective and Preventive Action methodology, with disciplined problem-solving methods, in order to address product, process, performance, Quality System and audit non-conformances. Any corrective or preventive action taken to eliminate the causes of actual or potential non-conformities shall be appropriate to the magnitude of problems and commensurate with the risks encountered. The supplier shall implement and record any changes to the documented procedures resulting from corrective and preventive action.

6.1 Initiation of a Supplier Corrective Action Request

A Supplier Corrective Action Request should be given the highest priority within the Supplier's operations and thus requires the urgent and active participation of the Supplier's management team. A request for Supplier corrective action can be prompted by either nonconforming supplied parts / materials, a performance, Quality System issue or process / assessment finding that has produced a need for corrective action.

Globe Engineering shall initiate the Supplier Corrective Action Request process by documenting the nonconforming product, process, Quality System, or performance condition and notifying the Supplier.

The supplier and/or assignee will acknowledge receipt, begin immediate containment actions, investigate the system deficiencies, and provide a detailed and complete plan to correct the issue.

Responses are to include adequate detail and supporting data to assure Globe Engineering that a root cause has been determined, and appropriate system corrective actions have been taken. Responses are to be returned by the date required by the Globe Engineering quality representative.

The appropriate Globe Engineering Quality personnel will review the Supplier's response for timeliness, completeness of the submission and the suitability of the responses. Late and / or rejected responses will be recorded and the data reviewed to determine Supplier capability to perform adequate corrective action.

Suppliers who demonstrate a consistent inability to provide acceptable responses to Supplier Corrective Action Requests or within the deadlines established are subject to a probationary status and could be removed from the Globe Engineering Approved Supplier List.

6.2 Continuous Improvement

Globe Engineering expects all its suppliers to pursue continuous improvement initiatives. These initiatives shall include, at a minimum, procedures for preventive actions. Suppliers should evaluate the results of root cause corrective actions and apply them as preventive actions to similar products and processes where the same or similar defect could occur. Suppliers should be cautious to avoid root causes of “operator error” and instead look deeper for underlying factors. If operator error is truly the cause, error-proofing actions must be employed to prevent recurrence; re-training alone is insufficient.

6.3 Foreign Object Debris/Damage (FOD) Prevention

Suppliers are responsible for developing and implementing a FOD prevention program that complies with AS9146. The program should include FOD awareness and prevention training for employees. Employees should also be instructed as to the proper handling of parts and materials to prevent handling damage. Suppliers may be subject to review and/or training for FOD requirements as deemed necessary.

Section 7: Additional Purchase Order Specific Quality Clauses

7.1 The following G-clauses apply only when specifically invoked by the Purchase Order:

G1 Export Controlled

Seller shall include one of the following two (2) legends in solicitations and purchase orders/contracts, as applicable, that contain export-controlled unclassified technical data or technology (as defined by the International Traffic in Arms Regulations [ITAR] and Export Administration Regulations [EAR], respectively) that has been provided to Seller by Buyer:

EXPORT CONTROLLED – The technical data or software is subject to the International Traffic in Arms Regulations (22 C.F.R. Parts 120-130). Export, re-export, or retransfer contrary to U.S. law is prohibited.

Or

EXPORT CONTROLLED – The technology or software is subject to the Export Administration Regulations (15 C.F.R. Parts 730-774). Export, re-export, or retransfer contrary to U.S. law is prohibited.

G2 DX Rated Order

DX Rating indicates this is a rated order certified for National Defense use. Supplier is required to follow all the provisions of the Defense Priorities and Allocation System regulations. The DX rating is the highest DPAS rating.

A1 applies to aircraft production.

A2 applies to missile production.

C9 applies to the production of miscellaneous items.

G3 DO Rated Order

DO Rating indicates this is a rated order certified for National Defense use. Supplier is required to follow all the provisions of the Defense Priorities and Allocation System regulations.

A1 applies to aircraft production.

A2 applies to missile production.

C9 applies to the production of miscellaneous items.

7.2 The following P-clauses apply only when specifically invoked by the Purchase Order:

P1 No Procurement Requirements

P2 Domestic Sources Only

Material supplied against this Purchase Order must be procured from domestic (US) sources only.

Mill

Melting source

P3 DFAR REFERENCE – Specialty Metals – U.S. or Qualified Country Sources Only

Material supplied against this Purchase Order must be produced in either the United States or a qualifying country. This material must be DFARS compliant per 252.225-7009. The full text of this clause may be accessed electronically at this address:

[252.225-7009 Restriction on Acquisition of Certain Articles Containing Specialty Metals](#)

A list of qualifying countries can be found at this address: (252-225-7002)

[252.225-7002 Qualifying Country Sources as Subcontractors](#)

Melting source

P4 PRI Hardware Approved Source

Material supplied against this Purchase Order must be procured from suppliers listed on the Qualified Manufacturers List (QML), in the PRI website for standard hardware, located at: <https://www.eauditnet.com/eauditnet/ean/user/login.htm>

P5 Hardware / I.D. Tape / Sealants Approved Source

Material supplied against this Purchase Order must be procured from the manufacturers listed in the applicable specification or engineering drawing.

P6 BAE Systems F-35 Approved Suppliers

Material supplied against this Purchase Order is directly related to the F-35 Lightning II program. **Metallic Raw Materials (bar, rod, plate sheet, etc.):** shall be manufactured by an approved mill and address, when specified by Engineering Materials and Approved Products (EMAPS), SC10, and/or Letter of Authority (LOA).

Note: EMAP takes precedence over sources listed within SC10. If EMAPS solely requires, "Open Bid" sources, material must be procured from an approved mill and address listed within BAE's SC10 or LOA.

Distributors for metallic raw materials: must have an approved Quality System and be accredited per AS9120 or AS9100, scope to include stocking/distributing, unless otherwise approved by SC10 or LOA.

[LOA/WAR/444/2010](#)

P7 BAE Systems F-35 Hardware Requirements

Material supplied against this Purchase Order is directly related to the F-35 Lightning II program and must be procured from suppliers listed in the Approved Manufacturer List for Standard Parts (2GNA00001) per BAES-JSF-QMS-141-03-DV **(Use clause P16).**

If the item is not listed in 2GNA00001 it must be procured from suppliers listed on BAE Systems Military Air Solutions approved sources (BAE/AG/QC/SC10) or LOA/WAR/444/2010

[BAE AG QC SC10.pdf](#)

[LOA/WAR/444/2010](#)

Globe use only - 2GNA00001 is located at [2GNA00001.pdf](#)

Note: Suppliers - notify Globe's purchasing for a copy.

P8 Beechcraft Approved Suppliers

Material supplied against this Purchase Order must be manufactured by a Beechcraft Approved Raw Materials Suppliers. A complete list of Beechcraft approved raw materials suppliers can be at (under the quality tab): <https://ww2.txtav.com/Supplier/>

Mill

This is derived from BS25691 Section 3.1.1 and Quality Assurance Notice:
DFARS Clause 252.225-7014, Preference for Domestic Specialty Metals, Alt 1

P9 Boeing Approved Metallic Raw Material Suppliers

Metallic raw materials listed in D1-4426 Process Code Index section 600-699 must be from domestic mills, if it is from a foreign mill, they must be listed in this section. All manufactures of Titanium material, must be approved (both foreign and domestic sources).

<http://active.boeing.com/doingbiz/d14426/prcsspec.cfm?low=600&high=699>

Mill

P10 Boeing Approved Distributors for Fasteners

Material supplied against this Purchase Order must be manufactured from suppliers listed in the applicable Boeing specification (**use clause P5**). Distributors must be listed in D1-4426 Authorized Distributors of Designated Fasteners.

This list is located at: http://active.boeing.com/doingbiz/d14426/bfmanuf.cfm?Type_cd=F

Distributor

P11 Bombardier Approved Suppliers

All items supplied against this Purchase Order must be procured from Bombardier Aerospace Approved Suppliers. This list is located at : <http://bombardier.com/en/aerospace/suppliers>.

Raw Material must be purchased only from manufacturers listed in the Bombardier Engineering Material Control Manual ([EMCM-001](#)).

When the EMCM documents does not list an approved source, the item shall be purchased from any manufacturer listed on QPL. This is located at <https://bombardierquality.service-now.com/sp>

Mill

P12 Cessna Approved Suppliers for Wrought Aluminum Material (SHEET AND PLATE ONLY)

Material supplied against this Purchase Order must be procured from Cessna approved sources. Approved material suppliers are found in the following document: CMMP025 – Procurement Requirements for Wrought Aluminum Sheet and Plate.

Globe use only - CMMP025 is located at: [Specifications\Cessna\CMMP025.pdf](#)

Note: Suppliers - notify Globe's purchasing for a copy.

Mill

P13 Cessna Approved Suppliers for Wrought Titanium Material

Material supplied against this Purchase Order must be procured from Cessna approved sources.
Approved material suppliers are found in the following document:

CMMP015 – Procurement Requirements for Titanium Material.
Globe use only - CMMP015 is located at: Specifications\Cessna\CMMP015.pdf

Note: Suppliers - notify Globe's purchasing for a copy.

Mill

P14 Dassault Falcon Jet Approved Suppliers

Material supplied against this Purchase Order must be procured from Dassault Falcon Jet approved sources.

[Bralco Southwest, AMI Metals Inc., TW Metals, or Castle Metals](#)

Distributor

P15 Lockheed EMAPS Requirements

Material supplied against this Purchase Order must be procured from suppliers listed on the applicable section of EMAPS (Engineering Materials & Approved Products). EMAP is applicable to all Lockheed programs except for F-16, F-2, and T-50 Programs. EMAPS can be accessed via Lockheed's portal through Exostar

This is derived from [LMA-D0006](#)

P16 Lockheed F-35 Hardware Requirements

Material supplied against this Purchase Order must be procured from suppliers listed in the Approved Manufacturer List for Standard Parts - 2GNA00001.
Globe use only - [2GNA00001.pdf](#)

Note: Suppliers - notify Globe purchasing for a copy.

P17 Boeing 30M Hardware Supplement Requirements

Material supplied against this Purchase Order must be procured from suppliers listed in the applicable Boeing – St. Louis 30M Supplement.

Note: Suppliers - notify Globe purchasing for a copy of the supplement.

P18 Bell Helicopter 299-100-837 Requirements

Metallic wrought materials (bar, plate, tube) per Industry, Military, or Federal specifications used in manufacturing-controlled items designated as “Primary”, “Critical”, or “Flight Safety” shall be procured from sources approved to and listed in 299-100-837 “Requirements Specification – Approved Metallic Materials Source List”.

Mill

This is derived from SQRM-001 Appendix VI Section 4.1

P19 UTAS Material & Hardware Requirements

Material supplied against this Purchase Order must be procured from suppliers listed in the RTX QDL_Pratt & Whitney and Collins Aerospace_ASQR-01 QDL Qualified Distributor List, or Report 80 “UTAS Approved Process/Material Supplier Report” or Report 85 “Supplier Internal Process Report”. Approved manufacturers of Externally Threaded High Strength Fastener (HSF) are listed in Report 80 under “Fastener Manufacturers, High Strength”

Globe use only – RTX QDL_Pratt & Whitney and Collins Aerospace_ASQR-01 QDL Qualified Distributor List is located at:

[Pratt & Whitney and Collins Aerospace Supplier Quality Requirement Documents | Raytheon Technologies \(rtx.com\)](#) Scroll to Pratt & Whitney and Collins Aerospace Qualified Distributor List Document.

Distributor

P20 Shelf-life Controlled Items

Suppliers shall have suitable controls in place to monitor the preservation of any item(s) with a limited shelf-life defined by the material manufacturer or controlling specification. Items with limited shelf-life delivered to Globe Engineering shall have a minimum of 75% of the shelf-life remaining at the time of delivery, unless otherwise agreed upon by Globe’s procurement department.

P21 Space Exploration Technologies (SpaceX)

Raw material supplied against this Purchase order must be sourced in accordance [with SPX-00035640](#) from a source listed on SpaceX’s Acceptable Mills & Preferred Distributors listing (contact Globe Eng for a copy of this listing - <https://www.spacex.com/legal/index.html>).

Melters

Mill

Non-Metallic Materials and Commercial Off-the-Shelf (COTS) Items. Distributors are required to be AS9120 certified and must provide full traceability back to the manufacturer in accordance with [SPX-00007672](#)

P22 Beta Technologies

Raw material shall be procured according to the requirements of Beta Technologies' [BTRS400](#) Controlled Materials List

Mill

When either hardware or catalogue items require QPL qualification, only approved manufacturers and their approved distributors shall be used.

Distributor

P23 Hartzell Propeller

Raw material shall be procured from a domestic source or from a foreign source listed on [Hartzell's Foreign Supplier List](#).

Mill

Melting source

7.3 The following Q-clauses apply only when specifically invoked by the Purchase Order:

Q1 Delete

Q2 Inspect and Certify (Standard Calibration Requirements)

Inspect and Certify to ISO 10012-1 & ANSI/NCSL-Z540-1

Q3 Inspect and Certify (Pyrometry Calibration Requirements)

Inspect and Certify to ISO 10012-1, ANSI/NCSL-Z540-1 and AMS 2750

Q4 Inspect and Certify (Calibration Requirements for Hardness Testing Equipment)

Inspect and Certify to ISO-10012-1, ANSI/NCSL-Z540-1 and BAC 5651

Q5 BAE F-35 Requirements

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Work to be accomplished in performance of this purchase order is directly related to a BAE PO. Processing must be accomplished in accordance with the process specification(s) included on this PO and (LOA/WAR/444/2010)

(PROCESS APPROVALS PER BAES-JSF-QMS-500-04-RG)

(BAES-JSF-QMS-141-03-DV)

(BAE/AG/QC/SC1 Parts 1 to 7)

(BAE/AG/QC/SC10)

(BAES-JSF-QMS-500-04-RG (SUPPLIER SORT))

Supplier's certifications must specify that QMS arrangements in respect of these supplies comply with the requirements of the supplier's BAE (Aircraft Business Unit) Approval/Authority. In addition to this, LOA reference Number "LOA/WAR/444/2010" must be printed on the certification.

Q6 Beechcraft Quality Requirements

Work to be accomplished in performance of this purchase order is directly related to a Beechcraft Corporation PO. Suppliers must comply with all applicable quality requirements included in document [P1](#) and manufacturing requirements in [BS25691](#) (Control of Product Manufacturing Processes for Suppliers and Outside Production).

Q7 Mission System Davenport

Work to be accomplished in performance of this purchase order is directly related to a Mission Systems Davenport Purchase Order. Suppliers are required to provide the manufacturer's certificates of compliance for all materials. This includes primers, paints, and adhesive tapes.

[Mission System Davenport Supplier](#)

Q8 Lockheed Quality Assurance Requirements (Appendix QJ & QX)

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.

A Certificate of Conformance with a unique certification number in accordance with paragraph F of Section II of Appendix QJ is required.

Sub-tier Process Sources are required to identify specification(s) title(s), specific revision level(s) and drawing(s) requirement(s) to be performed by a QCS-001 source.

Parts presented against this purchase order shall be suitably wrapped, racked, or packaged so as to guard against corrosion or shipping damage.

Copies of all purchase orders must be maintained.

Appendix QJ is located at:

http://www.lockheedmartin.com/us/aeronautics/materialmanagement/scm-quality/scm-quality_qualityappendices.html

Globe Engineering's LM Aero processor code is 400932.

Q9 Northrop Quality Assurance Requirements

Work to be accomplished in performance of this purchase order is directly related to Northrop Grumman Aerospace Systems Purchase Order. Suppliers must comply with all applicable provisions of the Northrop Grumman Supplier Quality Assurance Requirements.

<https://www.northropgrumman.com/suppliers/tools/>

Q10 United Launch Alliance QC014 Special Process Requirements

This Contract requires Special Processing. The CONTRACTOR and/or CONTRACTOR's subcontract source must be approved by ULA at the time of process performance OR is listed as approved for: "Q4M - SUPPLIER APPROVE OWN SPECIAL PROCESSORS"

A list of ULA approved suppliers/processors and their associated processes is available on ULA's portal.

The CONTRACTOR shall include this clause, including this paragraph, in all subcontracts.

Certificate of Conformance and/or equivalent Process Certificate, from CONTRACTOR and all subcontractors performing Special Processing Work under this Contract, will be submitted to ULA. The certificate shall be traceable to a ULA Contract number and include:

- 1) Part number including revision level
- 2) Serial and/or lot number(s) (as applicable)
- 3) Process specification number and revision level
- 4) Processing date
- 5) Name and address of the processor(s) performing each process
- 6) A certification statement that the special process was performed per the applicable drawing/specification requirements
- 7) Signature with date and title by an authorized representative of the CONTRACTOR and/or CONTRACTOR's subcontract source

ULA's approval of any processor does not relieve CONTRACTOR of CONTRACTOR's requirement to comply with the terms of this Contract.

[https://www.ulalaunch.com/docs/default-source/special-provisions---functional-documents/doc-253-01-\(05-19\).pdf?sfvrsn=ca81774e_2](https://www.ulalaunch.com/docs/default-source/special-provisions---functional-documents/doc-253-01-(05-19).pdf?sfvrsn=ca81774e_2)

Q12 Boeing Special Process Requirements:

Boeing Clauses Q019 & Q020: Approved Process Source – Deliverable Documentation

Work to be accomplished in performance of this PO is directly related to a Boeing PO. The Processor and/or Processor's subcontract process sources shall be an approved processor or shall use approved processors as required by D1-4426, "Approved Process Sources". A list of the approved processors and associated processes are available from Buyer's Procurement Agent or at <https://www.boeingsuppliers.com/quality.html#/process>

This clause shall be included in Seller's subcontracts for work performed under this purchase contract that involves D1-4426 processes.

A Certificate of Conformance and / or equivalent Process Certificate, signed by an authorized agent of the Processor / Seller shall be included with shipping documentation (packing slip / invoice). The certificate shall include purchase contract number, part number(s), Trace Number (as applicable), Process Specification number w/revision, processing date(s) and name and address of the Processor(s) performing each of the D1-4426 Process(es).

Boeing approval of any processor shall not relieve Processor of Processor's requirement to comply with the terms of this purchase contract.

Q13 RTX (Collins) Quality Assurance Requirements ASQR-01

Work to be accomplished in performance of this purchase order is directly related to a PO placed by a company owned by United Technologies Corporation. Suppliers must comply with all applicable quality requirements included in document ASQR-01 (Aerospace Supplier Quality Requirements). In addition, if the PO is for Hamilton Sundstrand, then suppliers must also comply with all applicable quality requirements included in documents HSM17 and HSM19 as well as the requirement to use only Special Processors listed in Report 80 and Report 85.

ASQR-01 <https://www.rtx.com/suppliers/united-technologies-suppliers/united-technologies-asqr01> use only - HSM17 is located at: [Hamilton\HSM17.pdf](#)

Globe use only - HSM19 is located at: [Hamilton\HSM19.pdf](#)

Globe use only – Report 80 is located at: [Hamilton\80_report.pdf](#)

Globe use only – Report 85 is located at: [Hamilton\85_report.pdf](#)

Note: Suppliers - notify Globe purchasing for a copy.

Q14 Triumph Quality Assurance Requirements

Work to be accomplished in performance of this purchase order is directly related to a Triumph Aerostructures PO. Suppliers must comply with all applicable provisions of the Triumph Supplier Quality Assurance Requirements. Suppliers and their sub-tiers shall use the appropriate Triumph or Customer ASPL for all Triumph procurements.

[Quick Links | Triumph Supplier Portal \(triumphsupplysource.com\)](#)

Q15 Pre-clean prior to Heat Treatment for sub-tier operations

Unless otherwise specified on Globe Engineering's purchase order pre-cleaning prior to heat treatment was performed at Globe Engineering. Cleaned parts shall be handled with clean gloves prior to processes to prevent contaminations.

Q16 TAI Quality Assurance Requirements

Work to be accomplished in performance of this purchase order is directly related to a TAI (Turkish Aerospace Industries) Purchase Order. Suppliers must comply with all applicable provisions of GENPPT104 Basic Quality Requirements for Suppliers. Suppliers and their sub-tiers shall use the appropriate TAI or Customer ASPL for all TAI procurements.

A Certificate of Conformance with a unique certification number in accordance with paragraphs L through O of Section 5.8 of GENPPT104 is required. A statement similar to the following shall appear on the Certificate of Conformance:

"The product included in this shipment contains parts requiring special processing or non-destructive test at sources approved by TAI and/or TAI's Buyer/Customer. A list of the specifications imposed, and the sources used are maintained on file for TAI's and/or TAI's Buyer/Customer review at our facility".

Sub-tier Process Sources are required to identify specification(s) title(s), specific revision level(s) and drawing(s) requirement(s) to be performed.

Parts presented against this purchase order shall be suitably wrapped, racked, or packaged to guard against corrosion or shipping damage.

Note: Clause Q16 shall be disregarded if TAI is not listed as Globe's customer on the shop planning.

Q17 Textron Aviation Quality Supplier Quality Requirements

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Work to be accomplished in performance of this purchase order is directly related to a Textron Aviation Purchase Order. Suppliers must comply with all applicable provisions of the latest revision of [Textron's P1 Supplier Quality Requirements](#).

Note: Suppliers - notify Globe purchasing for a copy.

Refer to Textron Aviation Materials and Process Engineering approval for purchase of aluminum (Globe clause P12) and titanium (Globe clause P13) wrought materials.

Q18 SAAB Aeronautics Quality Assurance Requirements

Work to be accomplished in performance of this purchase order is directly related to a SAAB Aeronautics Purchase Order. Suppliers must comply with all applicable provisions of the [PUR-2020-4126 REF-W-10.9](#) Quality Assurance Requirements for Distributors and build-to-print Suppliers to Aeronautics.

Q19 Space Exploration Technologies (SpaceX)

Work to be accomplished in performance of this purchase order is directly related to SpaceX's Purchase Order. Suppliers must comply with all applicable provisions of the SpaceX Supplier Manual, [SPX-00007672](#).

Q20 Beta Technologies

Work to be accomplished in performance of this purchase order is directly related to Beta Technologies Purchase Order. Suppliers must comply with all applicable provisions of Beta's [PL-0003](#) Supplier Quality Requirements Handbook.

Special processes performed in accordance with this purchase order shall use only the approved sources defined by Beta's approved supplier list (ASL) BTRS 300.

Section 8: Purchase Order Terms and Conditions

1. The Seller by acceptance of this Order, accepts all the terms and conditions hereof. Acceptance of this Order shall take place either by execution and return of the signed acknowledgement copy accompanying this order or by part performance of this order. Any modifications or alterations of or additions to the terms and conditions of this Order, to be binding must be in writing, signed by an authorized representative of the Purchaser and delivered by the Purchaser to the Seller. Any term, condition or reservation, inconsistent with the terms hereof that may be contained in any printed or standard acknowledgement, invoice form or other document issued by Seller shall be of no effect (Purchaser hereby objects to any such inconsistent terms, conditions, or reservations and notifies Seller that they are rejected) notwithstanding Purchaser's act of accepting or paying shipment or otherwise performing the obligations on its part to be observed or performed hereunder.

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2. Unless otherwise stated in this Order, terms are Net Thirty (30) days after delivery of goods and receipt of invoices.
3. Seller represents that any price or prices specified in this Order do not exceed Seller's current selling prices for the same or substantially similar goods. Unless otherwise stipulated all prices inserted on the face of this order shall represent the total cost to the Purchaser as at the point of delivery specified herein, including all sales taxes, excise taxes and custom duties and other Government and Municipal taxes, levies and charges of every description and charges per packaging, crating, boxing, storage and shipping charges. If price is not stipulated on this Order, it is not to be filled at higher prices than last previously quoted or charged without written authority of Purchaser.
4. All goods to be shipped F.O.B. as stated on the face of this order. If goods are shipped F.O.B. destination of Purchaser's plant, shipping charges must be prepaid in all cases. No insurance premium or shipping costs will be allowed unless authorized in writing. Goods must be packed and delivered to conform with Uniform Freight Classification to obtain lowest shipping rate. Packing slips must be enclosed with all shipments showing order number, line number, release number, if any, and quantity. Charges accrued through Seller's failure to ship in accordance with the Purchaser's shipping instructions will be charged to Seller's account.
5. Time shall be of essence in this Order. The goods must be delivered strictly in accordance with the quantities, specifications and delivery schedule specified, otherwise, in addition to its other legal remedies, purchaser shall be at liberty to cancel this Order, in whole or in part. Purchaser assumes no obligation for goods shipped in excess of quantities specified in this Order or prior to delivery schedule specified.
6. Goods are subject to inspection by Purchaser and Purchaser shall be the final judge of the goods. No payment will be made to Seller in respect of any goods, which are rejected on such inspection. Purchaser reserves the right to retain any portion of any shipment not strictly in accordance with specification and in such case will pay to Seller a reasonable price therefore, but such retention shall not preclude Purchaser from rejecting the remainder of any of other shipments. Rejected goods will be held for Seller's instructions and at its risk and expense. If instructions are not received within fifteen (15) days after notice of rejection, goods will be returned at Seller's expense. No goods returned as defective shall be replaced without Purchaser's written permission. Where re-work is required to meet specification requirements, such re-work shall be arranged for by Seller at no cost to Purchaser. Payment of good's shall not constitute acceptance thereof by Purchaser nor shall Purchaser's inspection or omission to inspect relieve Seller of its obligation to furnish all goods in strict accordance with all terms and provisions of this Order.
7. Seller expressly warrants that all good's covered by this Order will be fit and sufficient for the purpose intended, merchantable, of good design, material and workmanship, free from defects and will conform to applicable specifications, drawings, samples or description.

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8. Seller agrees to indemnify and save harmless Purchaser, its successors and assigns, against all damages, expense, claims, demands, actions, suits and proceedings for actual or alleged infringement of any patent, copyright or trademark by reason of sale, use or incorporation into manufactured products, of the goods furnished hereunder.
9. This Order shall not be assigned in whole or part without the previous written consent of Purchaser.
10. The remedies herein reserved shall be cumulative and additional to any other and further remedies provided in law or equity. No waiver of a breach of any provision of this contract shall constitute a waiver of any other breach, or of such provision.
11. The Seller shall not, without first obtaining the written consent of the Purchaser, in any manner advertise or publish the fact that the Seller has contracted to furnish to Purchaser the goods herein mentioned, and for failure to observe this provision the Purchaser shall have the right to cancel the contract resulting from acceptance of this Order, without any further liability thereon.
12. If Seller ceases to conduct its operations in the normal course of business (including inability to meet its obligations as they mature), or if any proceedings under any bankruptcy or insolvency laws is brought by or against Seller, or a receiver for the Seller is appointed or applied for, or an assignment for the benefit of creditors is made by Seller, Purchaser may terminate this Order without liability, except for deliveries previously made.
13. Seller shall keep confidential all information, drawings, specification or data furnished by Purchaser, or prepared by Seller specifically in connection with the performance of this Order and shall not divulge or use such information, drawings, specifications or data to or for the benefit of any other party. Seller agrees that if goods covered by this Order are to be determined to design or technical data furnished by Purchaser, the Seller shall not without the prior written consent of the Purchaser, manufacture any such goods except for and upon order of the Purchaser.
14. The obligations of the Seller contained herein shall survive acceptance of the goods and payment therefore by Purchaser.
15. This Order shall be governed in all respects by the laws of the State of Kansas.
16. Each subcontractor or supplier to the Company participating in any federal contract and entering into this purchase order hereby certifies it is in compliance with the requirements of Executive Order 11246, as amended, relating to equal employment and opportunity and non-

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segregated facilities, Executive Order 11701 (CFR 60-250) and the Vietnam Era Veterans Readjustment Assistance Act of 1974 (38 U.S.C. 4212) relating to the employment of veterans; the Rehabilitation Act of 1973 (41 CFR 60-741) relating to the employment of handicapped persons; and Executive Order 13496 (29 CFR Part 471) relating to the National Labor Relations Act and the drug free workplace act of 1988.

17. Purchaser shall not be liable to the Supplier for damages arising from any nonperformance under this contract arising out of causes beyond its control and without its fault or negligence, including but not limited to acts of God or of the public enemy, fires, floods, epidemics, pandemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather. If a Force Majeure Event exceeds a continuous period of thirty (30) days, then the Purchaser shall have the right by written notice to the Supplier to terminate the Order immediately without having any liability to the Supplier except in respect of that part of the Supplies already delivered to and accepted by the Purchaser prior to such termination.
18. Globe Engineering is an equal employment opportunity employer.