

	<p><b>The McGinty Machine Company</b></p> <p>222 N Hydraulic Wichita, Ks 67214</p>	<p style="text-align: center;">SQR</p> <p>Written By: Aaron Hauck</p>
<p><b>Supplier Quality Requirements</b></p>		



**The McGinty Machine Company**  
**222 N Hydraulic**  
**Wichita, Kansas 67214**

# Supplier Quality Requirements

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Aaron Hauck  
 Director of Quality Assurance

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## Revision Table

Revision	Description	Date
NEW	Created Document	09/26/2011
A	Revised section 1.19 (Right of Entry) completely To meet AS9100 Rev C Requirements. Added Section 1.3 for Subtier Supplier control, Added Engineering services, revised key characteristic Requirements, Revised nonconforming material Section entirely,	04/25/2012
B	Revised section 2.7 Bombardier Learjet quality Requirements from QP4.6-40 to QP4.6-1. Added To Table 1 Level 9 Repair Stations. Section 1.8 (9) added A First Article inspection in accordance with AS9102 is required against the assembly part number as well as each individual part within the assembly. Added Section 1.17. Section 1.20 Counterfeit Parts – Complete rewrite. Added section 1.21. Added SS7777 requirements to section 2.3. Added note to section 1.8.5. Added section 1.10.1. Added to section 2.7 Bombardier Hardware and catalogue items and raw material requirements. Added section 1.22 ITAR Flowdown. Added section 1.23 Supplier performance monitoring.	12/27/2013
C	Added section 2.2.1 to flow down Airbus QPL requirement.	04/02/2014
D	Section 1.4 added The Primary Customer can be determined by the part number and engineering drawing. If the Primary Customer cannot be determined, contact The McGinty Machine Company for clarification prior to proceeding- for clarification. Changed the Primary Customer names to the OEM names only. Added to Section 2.5 additional Boeing requirements. Added Learjet Supplier requirements to section 2.6. Changed Section 2.7 QPS-001 to SQRM-001.	04/30/2014

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**Revision Table Cont.**

Revision	Description	Date
E	Added Validation of Raw Material Test Reports requirement to section 2.5 Added Section 1.24 Conflict Minerals requirements.	11/18/2014
F	Added a note to section 1.8-4 to allow previous Raw material specifications and superseded specifications To be used to deplete suppliers stock.	10/13/2015

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## Scope

This SQR is the Supplier's guide to understanding The McGinty Machine Company's quality requirements and expectations. This document forms a part of McGinty Machines purchase order, unless otherwise specified herein. It contains McGinty Machines specific standard quality requirements and helpful general information. This document applies to suppliers and all members of their supply chain who furnish product, material, processes, and services.

### 1.0 General Requirements

#### 1.1 Quality System Requirements

Supplier shall implement and maintain a quality management system in accordance with the respective Quality System Standard listed in Table 1 of this document, as appropriate for the product being delivered to The McGinty Machine Company.

To determine the applicable Quality System requirements, the following questions apply;

a) Is the product being procured airborne, non-airborne or special?

**Airborne** – Airborne products are those procurements intended for contract deliverable flyway aircraft and their associated sub-systems including non-metallic material applied to aircraft. Product that has contractual Engineering and/or Quality requirements that affect the end item deliverable product.

**Non-airborne** – Non-airborne products are those products procured for non-flight applications such as; production tooling, test laboratories, etc.

**Special** – Special requirements include procurements for; Commercial off the Shelf (COTS), purchases of labor from calibration laboratories, and technical service providers.

b) Does supplier have design authority?

c) Does supplier build or distribute product?

Cross reference the information obtained in a, b and c above in Table 1 to determine the appropriate Quality System requirement.

Initial and subsequent periodic review of Supplier's quality system may be performed at the option of McGinty Machine. Objective evidence of Supplier's compliance either by submittal of requested

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evidence, or evidence of “Other Party” evaluation, may be acceptable for the purpose of re-survey to The McGinty Machine Company.

Supplier name changes, changes in ownership, changes in senior quality management, changes in product and/or process, changes of manufacturing facility location and changes in suppliers may subject Supplier’s quality system to reevaluation by McGinty Machine. Supplier shall notify McGinty Machine’s Director of Quality Assurance of any aforementioned changes in writing.

The quality management systems identified in Table 1, shall be the quality system standards used in determining eligibility for the McGinty Machine’s Approved Suppliers. An “other party” quality system certification is required for those standards noted in Table 1. The McGinty Machine Company will recognize all “other party” certifications issued by an accredited Certification/Registration Body (CRB). The accredited CRB’s can be found on the SAE web page: [www.sae.org/oasis](http://www.sae.org/oasis).

Suppliers shall make available, a copy of their certifications to McGinty Machine. Any changes to the certification such as a change of the CRB, update, withdrawal or disapproval must also be forwarded to McGinty Machine immediately.

**NOTE:** “Other Party” – A registrar that has their accreditation body participate in the IAQG/AAQG quality system certification oversight process. An “other party” quality system certification would be one issued by an accredited registrar that participates in the aerospace industries IAQG/AAQG oversight process.

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**Table 1 – Quality System Requirements**

	Quality System Level	Applicable Minimum Quality System Document	Supplier Description
<b>Airborne</b>	<b>Level 1</b> <sup>(3)</sup>	AS9100, EN9100 or, JISQ9100	Manufacturer with design authority (Major Assemblies, Source/Spec. Control Product); Engineering services with design/release authority
	<b>Level 2</b> <sup>(3)</sup>	AS9100 (1), EN9100 (1), JISQ9100 (1), or AS9003	Manufacturer (Build to Print), Value added Distributor, JIT Suppliers, Inspection Services (e.g., CMM)
	<b>Level 3</b> <sup>(4)</sup>	EN9120, AS9120 or ASA100	Pass through Distributor
	<b>Level 4</b> <sup>(2,4)</sup>	Nadcap AC7004, or AS9003	Processor
<b>Non-Airborne</b>	<b>Level 5</b>	AS9100 (3), AS9003, or ISO9001(3)	Tooling with design authority
	<b>Level 6</b>	AS9100 (3), AS9003, or ISO9001(3)	Tooling (Build to Print)
<b>Special</b>	<b>Level 7</b>	NONE	Commercial, Off-The-Shelf (COTS), Technical service providers.
	<b>Level 8</b>	ISO10012-1, ISO17025, ANSI Z540-1, A2LA, or NVLAP	Calibration/Laboratories
	<b>Level 9</b>	FAA FAR Part 145/21	Repair Stations
<b>Notes</b>			
1	Less the “Design” requirements of the standard		
2	Requirement is Nadcap process approval		
3	“Other Party” certification required		
4	“Other Party” certification required, Approval to AS9100 will also satisfy this requirement.		

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## 1.2 Additional Quality System Requirements

In addition to the quality system requirements identified in Table 1, unless otherwise specified, the following additional documents are imposed on all Purchase Orders. These documents can be obtained by contacting The McGinty Machine Company.

- SOP005 – Variation Management of Key Characteristics; SOP005 is applicable when “Key Characteristics” have been identified on the engineering drawing, specification or as a part of the configuration requirements on the purchase order.
- SOP017 – Digital Product Definition Quality Assurance Plan; SOP017 is applicable if part design and/or configuration is defined via a released digital dataset.

## 1.3 Supplier Subtier Control

Supplier is responsible for ensuring that procurements from its subcontractors conform to all requirements of the McGinty Machine Purchase Order. Supplier shall flow down to subtier suppliers all requirements in the purchasing documents, including the provisions of this manual.

Subtier suppliers shall meet all McGinty Machine quality requirements; it is the responsibility of the McGinty Machine’s approved supplier to ensure their subtier suppliers are qualified to McGinty Machines purchase order and requirements of this manual.

### 1. Evaluation of Subtier Suppliers

The McGinty Machine’s Supplier shall have a documented system for evaluating suppliers of subcontracted processes. Subcontracted processes shall be performed by Suppliers whose capabilities and performance are supported by objective evidence of control.

### 2. Qualification of Subtier Suppliers

If OEM approved processors are not required, supplier may use a special process supplier approved through their internal process.

## 1.4 Special Process Requirements

When special processes are required by drawing, specification, Purchase Order, or other media, the Supplier shall ensure that the processing source for these requirements, including those performed by the

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supplier, are approved by McGinty Machine’s customer prior to any processing of product (i.e., Boeing D1-4426, Lockheed Martin QCS-001, Airbus Digest, etc.).

The Supplier shall use the current specification revision in effect on the date of the purchase order. If the revision called out on the purchase order doesn’t match the current specification revision then the Supplier shall contact The McGinty Machine Company for clarification prior to proceeding.

When processes are procured, it is the responsibility of the Supplier to verify all processes are performed in accordance with the specification requirements. Additionally, the processor shall review, perform, inspect and certify to the process specification as required by the purchase order. Any departure from specification requirements requires the prior written approval from McGinty Machine’s Customer responsible for the specification. The Primary Customer can be determined by the part number and engineering drawing. If the Primary Customer cannot be determined, contact The McGinty Machine Company for clarification prior to proceeding.

The McGinty Machine Company’s Purchase Order to a Supplier shall state McGinty Machines Customer name, Part Number and P.O. Number.

Primary Customer	Approved Processor List
Lockheed Martin Aeronautics	QCS-001 & EMAP
Airbus	Airbus Qualified Special Process List (QSPL) & QPL
Sikorsky	Sikorsky - Approved Source List for Special Processes and Laboratories
Boeing	D1-4426
Bombardier	Bombardier Aerospace Approved Suppliers
Bell Helicopter	QPS-101
Triumph Aerostructures – Vought Aircraft Division	ASPL

## 1.5 Nonconforming Material Control

The Supplier shall maintain an effective system for controlling nonconforming materials and components including procedures for identification, segregation, documentation, evaluation, and disposition to prevent its unintended release or use.

### 1. Nonconformance Documentation

Supplier nonconforming product reports shall include the following information, at a minimum:



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- a. Complete article Identification
- b. Date of report initiation
- c. Complete description of the nonconformance
- d. Cause of the nonconformance
- e. Corrective actions taken or recommended, and
- f. Signatures of the initiator, and individual(s) who assigned the cause and corrective action.

**2. Disposition Authority**

The Suppliers disposition authority of nonconformances is limited to rework to engineering requirements, return to supplier and scrap.

**Rework** – A process applied to a nonconformance, entirely within the confines of the drawing specifications that will completely eliminate it and result in a characteristic that conforms completely to the drawings, specifications, and contract requirements.

Under the provision of this definition, rework is authorized if the governing specifications referenced within the bounds of the associated drawing provide the necessary rework instructions. Suppliers must document the nonconformance(s) and provide detail rework instructions as part of their manufacturing planning process. This is considered a part of the Supplier’s approved Quality System relative to the control, documentation, and disposition of nonconforming material. Any rework that will alter the chemical or mechanical properties of the affected part final engineering configuration must be submitted to McGinty Machine for disposition.

Those nonconformances that fall outside the original provisions and the supplier feels that a rework or repair can be applied should be submitted to McGinty Machine for subsequent disposition on the Supplier’s form or on McGinty Machines form #17.

**Return to Supplier** – Return of subcontractor product found to be discrepant for subsequent rework or replacement.

**Scrap** – Permanent removal from production and timely destruction of product found to be unfit for use. Scrapped product shall be conspicuously and permanently marked until destroyed.

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All other dispositions of nonconforming material shall be submitted to McGinty Machine on the Supplier's form or on McGinty Machines form #17.

### 3. McGinty Machine Disposition

McGinty Machine disposition is required when material is found to depart from engineering and/or purchase order requirements and cannot be reworked without affecting form, fit, or function.

The Supplier shall await McGinty Machine Disposition on any nonconformance to McGinty Machine requirements that affect form, fit, function, weight, interchangeability, reliability, unique characteristics or safety. Nonconformance of these types, shall be submitted to the McGinty Machine Quality Department.

To obtain McGinty Machine Disposition the following steps are required:

- a. The supplier shall initiate a nonconformance report
- b. The supplier shall then forward the nonconformance report to the appropriate McGinty Machine Quality Assurance representative or buyer. The information will be transferred from supplier's nonconformance report to McGinty Machine's form 17 (NCR).
- c. The McGinty Machine Company will forward to their Customer per Customer requirements for disposition or disposition in accordance with internal procedures.

Upon receipt of the completed form 17 (NCR) the supplier shall perform the following:

- a. Complete the instructions as documented on the NCR, and
- b. Inspect the product in accordance with documented procedures, and
- c. Ship the completed product and include a copy of the NCR. The applicable NCR number(s) shall be referenced on the Certificate of Conformance (C of C) and shipping documentation.

Product with disposition as scrap shall be mutilated by the supplier in such a way as to preclude their use in the aerospace industry.

### 1.6 Product Release

Product(s) associated with all McGinty Machine Purchase Orders are subject to McGinty Machines inspection. The McGinty Machine Company shall inspect deliverable product(s) upon receipt at

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McGinty Machines facility. In the case a purchase order states that source inspection is required by McGinty Machine, US Government, or McGinty Machines Customer, the Supplier shall contact McGinty Machine, US Government or McGinty Machines Customer per the purchase orders instructions.

**1.7 Part Marking Requirements**

Supplier shall mark all deliverable products and documents to maintain traceability to the Suppliers build documentation. If the Supplier is manufacturing the product complete it shall be part marked in accordance with the engineering drawing and/or specification requirements. If the product is not completed to all of the engineering requirements (i.e., NDT, Anodize, Prime, Paint, etc.) by the Supplier then the product may be temporarily part marked.

**1.8 Shipping and Documentation Requirements**

Supplier shall provide a packing sheet for each separate shipment. Packing sheets or attachments shall include the following information:

**1. Minimum requirements (All Suppliers and Distributors; All products)**

- a. Supplier’s company name and address
- b. McGinty Machines purchase order number, change order number and applicable P.O. line item(s) and part numbers.
- c. Denote applicable design drawing revision and applicable engineering changes as stated in the purchase order.
- d. A “Certificate of Conformance” (C of C) document that provides written assurance that all work performed in connection with McGinty Machines purchase order conforms to purchase order requirements. This can be a separate document from the packing sheet, or included on the packing sheet.

Note: The original signature and/or stamp of Supplier’s authorized Quality representative is required and must be dated. Secured computer-generated signatures are acceptable.

- e. McGinty Machines dispositioned nonconformance document number(s), as applicable, shall be noted on the packing slip.

**2. Sub-tier Supplier/Processor Certifications**

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If supplier is not the original fabricator, processor or assembly source of the product(s) which make up the deliverable end item(s), supplier shall obtain and retain on file sub-tier supplier/processor certifications and test results. A copy of the Supplier's sub-tier supplier/processor certifications and test results shall be forwarded with the shipment to McGinty Machine Company.

**3. Additional Requirements as Applicable:**

- a. Serial Number
- b. Traceable Records – Supplier shall maintain parts traceability records as required per applicable drawing requirements. Supplier's Certificate of Conformity package shall include parts traceability data.

**4. Machined Part Suppliers, Sheet Metal Suppliers, Composite/Non-metallic Parts Suppliers, Casting & Forging Suppliers, and Raw Material Manufacturers.**

Supplier shall provide the raw material certification, which was provided by the original mill. Mill certifications shall include conformance with the applicable material specification as noted on McGinty Machines purchase order, material description, alloy and condition, physical properties, chemical analysis, and heat lot number. If the raw material was purchased from a distributor, include the distributor's certificate of conformance along with the mill certification (Recertification by any means other than by the original mill is not authorized). Castings and forgings procured in support of McGinty Machine's purchases of machined parts must have documented evidence of McGinty Machine's Customer qualification acceptance prior to production. All chemical analysis and physical test certifications shall also be provided for castings and forgings.

**Note:** Suppliers using McGinty Machine provided material may provide evidence of McGinty Machine consignment in lieu of raw material certifications.

**Note:** This category also applies to machined /sheet metal assemblies where the assembly consists of the machined/sheet metal part and standard hardware such as bearings, bushings, nutplates, and/or sleeves.

**Note:** When a McGinty Machine Purchase Order for Raw Materials has a specification revision called out and the Supplier has the same material for a previous revision, it is allowed for the Supplier to use up remaining stock until depleted of the previous revision. This includes

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superseded specifications. McGinty Machine will not revise the Purchase Order to show the previous revision unless requested by the Supplier.

**5. Distributors of Standard Parts/Hardware/Raw Materials**

- a. McGinty Machine does not accept raw materials from pass through distributors (Level 3) that have not been procured directly from the manufacturer, unless certified copies from the original mill are available. Purchases of recertified raw material or raw material that has departed from direct control of the manufacturer is prohibited. Attempts to make such sales to McGinty Machine shall be grounds for disqualification.
- b. McGinty Machine approved distributors of raw material shall provide certified copies of manufacturer’s test reports with each shipment.
- c. McGinty Machine classifies a supplier as an approved distributor for a specific manufacturer when the distributor has written authorization from the manufacturer to procure and distribute specific products produced by manufacturer. It is the Distributor’s responsibility to provide a copy of the manufacturer’s authorization letter to McGinty Machine upon request.
- d. Distributors shall ensure that standard parts/hardware/material is marked in accordance with specification requirements Original mill marking shall be affixed and legible on raw materials and shall not show signs of tampering or altering.
- e. McGinty Machine does not accept standard hardware or any other items through pass through distributors (Level 3 Quality system approval) unless they are procured directly from the manufacturer or a copy of the original manufacturer certification/test report is provided. In addition, hardware or other items that have been altered by a pass through distributor will not be accepted without prior written permission from McGinty Machine. Distributors wishing to provide “Value Added” services shall be approved to McGinty Machine’s Supplier Quality System Level 2. (AS9100 Less Design; See Table 1).

NOTE: For elements 4 and 5 above Non USA suppliers of raw materials may not be used without written approval from McGinty Machine’s Quality, unless the supplier is listed as an approved manufacturer/ source in the respective procurement specification.

**6. Suppliers of Age-Sensitive Materials**

Provide original manufacturing/cure date, lot number(s), expiration date or length of shelf life (if indefinite so state), and any special storage/handling instructions. Note: For age-sensitive rubber products, Supplier’s expiration date or length of shelf life data is not required if the cure date and

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applicable specification number are stamped on the deliverable hardware. Supplier is responsible to determine if acceptance test report submittal is required in accordance with applicable material specification.

**7. Rework/Repair/Replacement/Modified Items**

Supplier’s Certification of Conformance and/or packing sheet (if it contains the C of C statement) document shall reflect the following requirements for rework, replacement, repair or modification of items returned to Supplier, including work performed by Supplier at McGinty Machine’s facility.

- a. The item(s) above have been reworked, repaired, replaced, or modified (as applicable), in accordance with respective nonconformance documents or Purchase Order.
- b. The item(s) meet the requirements of the engineering documents.
- c. The original configuration and qualification status of the item(s) remains in effect (as applicable).
- d. All applicable nonconformance document numbers or other references to insure traceability.

**8. FAA FAR, Part 21 (Certification Procedure for Products and Parts)**

Suppliers of new FAA products/parts shall provide documented evidence of traceability to FAR Part 43, Quality System Requirements, with each shipment. Supplier parts shall be airworthy and acceptable for aircraft/aeronautical installations to all specifications called out contractually.

**9. Assemblies/Sub-assemblies**

All deliveries must be accompanied with legible Certificate of Compliance (C of C) or equivalent with each kit. The supplier must certify that all material/parts have been processed, inspected, and tested in accordance with the purchase order and engineering requirements. The supporting data must be included with shipment to McGinty Machine.

Any deviations/waivers associated with material/parts in the assembly are to be listed on the packing slip/C of C along with the affected part number.

A First Article inspection in accordance with AS9102 is required against the assembly part number as well as each individual part within the assembly.

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**1.9 First Article Inspection (FAI)**

The purpose of Supplier’s FAI is to ensure that all design features of a deliverable product and its sub components meet all applicable levels of design drawing, material and process specification requirements. The Supplier shall perform FAI’s to the requirements of AS9102. If an FAI is required it shall be sent with the product(s) during shipment to McGinty Machine.

**1.10 Manufacturing Plan Submittals for Critical Parts**

Manufacturing plans requiring McGinty Machine’s Customer approval per specification/purchase order requirements shall be submitted to McGinty Machine as required by applicable specification.

The manufacturing plan shall contain fabrication, processing, processor name, and inspection steps in the sequential order required by the applicable process specification(s) and/or engineering drawing(s). This shall also include all sub-tier associated manufacturing and/or process plans.

Upon approval of Supplier’s manufacturing plan, Supplier shall control all manufacturing, processing, testing and inspections as stated in the approved plan.

Delivery of product is not permitted until Supplier has received McGinty Machine’s Customer approval.

**1. Non-Destructive Test (NDT) Submittal Requirements**

Supplier shall review the Purchase Order and associated drawings to determine if NDT is required. If submittal of NDT general procedures and/or part-specific techniques are required, then it shall be stated on the Purchase Order. McGinty Machine Customer’s guidelines procedure for minimum content of general procedures/techniques are provided on the Purchase Order.

**1.11 Tooling Requirements**

Tooling furnished by McGinty Machine or McGinty Machine’s Customer does not relieve the Supplier of responsibility of proving the adequacy of all tooling. Any anomalies found in such tooling must be immediately reported to McGinty Machine’s Procurement. If McGinty Machine furnishes tooling to Supplier requiring a tool prove, McGinty Machine’s acceptance will be based on verification of supplier’s first article part and/or assembly documentation.

**1.12 Government QA Requirements**

This requirement will be stated on the Purchase Order if required. If applicable, Supplier shall promptly notify the Government Representative normally servicing Supplier’s facility. If the Government

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Representative/Agency cannot be identified, notify McGinty Machine’s procurement immediately. The packing list or C of C that the Government Representative signed off on shall be forwarded to McGinty Machine with the product(s).

**1.13 Requests for Corrective Action and Notification of Escapes**

**Corrective Action Requests**

Responses for corrective action will be directed to the Supplier’s Quality Representative. Unless otherwise defined in other applicable flow-down documents, Suppliers are required to respond, within 30 calendar days, to all formal requests for cause and corrective action unless otherwise noted on individual requests for C/A. Responses shall be on the Supplier’s form or McGinty Machine’s corrective action tag.

Note: Corrective action extensions must be requested in writing.

**Notification of Escaped Defects**

When the supplier identifies or becomes aware of a suspect product/service that has escaped from the supplier’s facility to The McGinty Machine Company, the supplier shall notify McGinty Machine within 48 hours. The notification shall be in writing, addressed to McGinty Machine, on the suppliers own letterhead.

Notifications of escape shall be sent via e-mail to the following email address (Note: A courtesy copy shall also be forwarded to the cognizant, McGinty Machine Buyer):

[qamanager@mcgintymachine.com](mailto:qamanager@mcgintymachine.com)

The notification shall at a minimum contain the following information:

- a. Supplier Name
- b. Description of the defect
- c. All affected part number(s)
- d. P.O. Number(s)
- e. Quantities, Dates delivered



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- f. Traceability information
- g. Root Cause and Corrective Action

McGinty Machine may request additional information to support internal investigation and/or customer requests.

**1.14 Engineering Design Services**

Engineering drawings shall conform to ASME Y14.5M standards. Supplier shall maintain and control all engineering design data.

Supplier shall obtain McGinty Machine’s approval prior to implementing any change to engineering drawings that affects form, fit or function.

**1.15 Key Characteristics**

When the drawing, specification, and/or purchase order includes “key characteristic” requirements, supplier shall employ Variability Reduction/Statistical Process Control methods to ensure “key characteristic” integrity. Records shall be retained at Supplier’s facility and provided to McGinty Machine upon request. Supplier shall establish control plans for applicable key characteristics and strive to achieve a CPK of 1.33 or better. If not achievable, contact the appropriate McGinty Machine quality manager for direction.

**1.16 Raw Material Type and Temper**

All metallic details, prior to the first fabrication operation, the supplier is required to verify the correct material type and temper to engineering. Evidence of verification shall be on the supplier’s shop traveler, work order, planning paper or other inspection status documentation.

**1.17 Qualified Die for Castings & Forgings Procured to an Engineering Drawing (Part Number)**

Prior to initial production, the die pattern must be qualified per the requirements of the blueprint specifications, the supplier of the casting or forgings shall perform first piece inspection. Actual dimensions are to be recorded on the First Article Inspection AS9102 Form. Supplier equivalent forms are acceptable proving they address all the elements of the AS9102 form. The FAI along with the qualification package shall be included during shipment of the castings or forgings to McGinty Machine.

**1.18 Quality Records**

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Records shall be readily available for review by McGinty Machine, its customers, and Government regulatory agencies.

Records are those as defined in AS9100 or other governing Quality Management System specifications and shall be retained in hard paper, film media, and/or electronic for a minimum of 10 years after purchase order completion.

**1.19 Foreign Object Damage Prevention Program**

A. Seller shall maintain a FOD prevention program. Seller’s FOD prevention program shall include the review of design and manufacturing processes to identify and eliminate foreign object entrapment areas and paths through which foreign objects can migrate. Seller shall ensure work is accomplished in a manner preventing foreign objects or material in deliverable Items. Seller shall maintain work areas and control tools, parts and materials in a manner sufficient to preclude the risk of FOD incidents. Seller shall document and investigate each FOD incident and ensure elimination of the root cause of each such incident. Whenever and/or wherever FOD entrapment or foreign objects can migrate, Seller’s FOD prevention program shall include Seller’s periodic self assessment of its internal FOD prevention practices, including each respective subcontractor’s FOD prevention program at every tier to measure effectiveness of program compliance to requirements. Seller’s FOD prevention program shall provide initial and periodic FOD training to Seller’s employees. Seller shall provide records of such self assessment and training to Buyer, upon request.

B. Seller’s FOD prevention program shall, at a minimum, contain the following elements:

1. Design & Manufacturing Process Review,
2. Performance Measurement,
3. Training,
4. Material Handling and Parts Protection,
5. Housekeeping,
6. Tool Accountability,
7. Hardware Accountability,
8. Lost Items Search and Documentation Process,

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9. Physical Entry Control into FOD Critical Areas, and

10. FOD Focal Point(s)

C. Whenever and/or wherever FOD entrapment or foreign objects can migrate, Seller shall ensure that applicable FOD requirements are flowed down to Seller’s subcontractors at every tier.

D. Prior to closing inaccessible or obscured areas and compartments during assembly, Seller shall inspect for foreign objects/materials. Seller shall ensure that tooling, jigs, fixtures, and test or handling equipment are maintained in a state of cleanliness and repair sufficient to prevent FOD. By delivering Items to Buyer, Seller shall be deemed to have certified to Buyer that such Items are free from any foreign materials that could result in FOD.

**1.20 Counterfeit Parts Prevention**

McGinty Machine suppliers shall put into place a documented program to avoid, detect, mitigate and disposition counterfeit parts and materials.

Suppliers should utilize and reference AS6174 and/or AS5553 for guidance. Suppliers shall also flow down counterfeit parts program requirements to their sub-tiers, especially but not limited to:

- a) Electronic Parts Suppliers
- b) Raw Material Suppliers
- c) Distributors
- d) Manufacturers

**1.18 Control of Digital Media**

Supplier shall maintain records and procedures which control configuration and accuracy of software used to machine, test, or accept hardware. Software may include, but is not limited to, machine control data, Computer Aid Design/Computer Aided Manufacturing (CAD/CAM) models, and CATIA models, etc. The storage media for software may include, but is not limited to computer hard drives, CD’s, and numerical controlled (NC) tapes.

Items to be maintained for the purpose of this section shall include as a minimum:

- a. A test data set to ensure accuracy of transmitted data, and

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- b. A directory for the latest released data sets, and
- c. Appropriate data security (i.e., backup, secure storage area, etc.).

**1.19 Right of Entry**

Right of access shall be granted to The McGinty Machine Company, McGinty Machine Company’s Customer(s), and Regulatory Authorities to applicable areas of all facilities, at any level of the supply chain, involved in the order and to all applicable records.

**1.20 Continuous Improvement**

Supplier undertakes that it shall, throughout the duration of the order:

- a. Maximize the quality and efficiency of each item; and
- b. Minimize the acquisition, development, manufacturing, operating and other costs, which arise in connection with it.

**1.21 AS9015, Requirements for Delegation of Product Verification**

When Seller delegates product verification, Seller shall conform to the requirements of AS9015, “Supplier Self Verification Process Delegation Programs,” as may be amended from time to time. Buyer reserves the right to conduct surveillance at Seller's facility to determine that Seller's quality system conforms to the requirements of AS9015.

AS9015 establishes minimum requirements for Seller’s delegation of product verification. When delegating product verification, Seller is not relieved of its obligations under this contract.

Seller shall obtain McGinty Machines approval of delegated sub-tier suppliers prior to authorizing delegation.

Seller shall have a current list of their delegated suppliers and shall provide the list to McGinty Machine Company, their Customer or regulatory agency for review when requested.

**1.22 ITAR And EAR**

Documents and data supplied by McGinty Machine Company may contain technical data within the definition of the International Traffic and Arms Regulations (ITAR) and is subject to the Export Control

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Laws of the U.S. Government. Transfer of this data by any means to a foreign person or foreign entity, whether in the United States or abroad, without an export license, ITAR exemption or other approval from the U.S. Department of State is prohibited.

Supplier's shall comply with the most current export control and sanctions laws, regulations, and orders applicable at the time of the export, re-export, transfer, disclosure or provision of Goods, Software, Technology or Services including, without limitation, the

- a) Export Administration Regulations (“EAR”) administered by the Bureau of Industry and Security, U.S. Department of Commerce, 15 CFR. parts 730-774; International Traffic in Arms Regulations (“ITAR”) administered by the Directorate of Defense Trade Controls, U.S. Department of State, 22 CFR parts 120-130;
- b) Foreign Assets Control Regulations and associated Executive Orders administered by the Office of Foreign Assets Control, U.S. Department of the Treasury, 31 CFR parts 500-598; and
- c) laws and regulations of other countries (collectively, “Export Control Laws”)

**1.23 Supplier Performance Monitoring**

McGinty Machine Company evaluates supplier performance based on delivery performance and quality of products. At McGinty Machine’s discretion an on-site audit or source inspection may be performed as a result of failure to comply with purchase order requirements or an unacceptable quality performance.

Performance Metric	Rating Criteria	Criteria
Delivery Performance	<b>On-time delivery is based on the number of purchase order receipts that were received early or up to 3 days after the purchase order line item due date.</b>	<b>99% On Time</b>
Quality Performance	<b>When material, product and/or paperwork have been identified to not conform to specifications/ component outlined in purchase order, associated drawings, or other contract requirements.</b>	<b>99% Acceptance</b>

**1.24 Conflict Minerals**

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McGinty Machine has adopted the requirement for responsible sourcing of materials and this requirement shall be flowed to suppliers through this document. McGinty Machine’s suppliers are expected to source materials from socially responsible suppliers. This means not only that materials are sourced from suppliers outside the conflict-affected and high-risk areas but may also be sourced from conflict-free suppliers within the DRC and surrounding area.

All McGinty Machine suppliers are expected to comply with the Dodd-Frank regulation and provide declarations as communicated and required per this document.

Suppliers must “flow-down” or pass this requirement on to their supply chain if they do not source directly from smelters and determine the source of specified minerals.

McGinty Machine specifically requires our supply chain to only use smelters/refiners verified to be compliant with the EICC/GeSI Conflict-Free Smelter Program (as published at [www.conflictreesmelter.org](http://www.conflictreesmelter.org)).

Suppliers who are non-compliant with these requirements shall be reviewed by McGinty Machine for future business consideration.

As we become aware of instances where minerals in our supply chain potentially finance armed groups as defined in the SEC’s conflict minerals rule, we will work with our suppliers to find alternate conflict-free sources.

## **2.0 Specific Requirements per Prime Customer**

### **2.1 Lockheed Martin Aeronautics**

The requirements of Lockheed Martin Aeronautics document QX is applicable in its entirety. The latest revision posted by Lockheed Martin Aeronautics at the time of purchase order acceptance will apply.

Seller shall ensure all Seller sub-tier purchase orders and/or associated purchase order documents for Lockheed Martin controlled processes include the following data elements, statements, or the statement in the Note after f:

- a. Seller’s unique LM Aero identification number (“vendor code”) and all LM Aero unique “process codes” for each Buyer – controlled process to be performed,
- b. 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

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in accordance with process specification(s) on this purchase order and Lockheed Martin Aeronautics Company Appendix QJ”,

c. A statement that seller’s supplier must file and maintain a copy of all purchase orders containing the above statement and make these available for review by Buyer, upon request,

d. A statement that seller’s must submit a Certificate of Conformance (“C of C”) with a unique certification number containing the following information:

1. Title and specification number (including revision letter) of the process.
2. Name and address of the process or non-destructive testing (NDT) facility.
3. Seller’s supplier’s unique LM Aero identification number (vendor or process code).
4. Date the C of C was issued.
5. Purchase order Part Number.
6. Quantity of parts (to include quantity accepted/rejected).
7. Signature and title of authorized quality agent of Seller, and
8. Fracture durability classification or serialization, when required.

e. A statement to ensure Seller’s sub-tiers suitably wraps, boxes or racks parts to guard against shipping damage and to apply rust or corrosion protection, and

f. A statement requiring Seller’s sub-tier to identify specification(s) title, specific revision level(s) and drawing(s) requirement(s) to be performed by a QCS-001 source.

g. If processor is utilized based on a NADCAP approval, a statement to the effect “Source utilized based on current NADCAP accreditation” shall be included.

NOTE: Seller can also use the following statement in lieu of the above statements a.-f. to meet the requirements of this paragraph:

Include Seller’s unique LM Aero identification number (vendor code) and 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

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specification(s) on this purchase order and the revision in effect as of the date of this P.O. of Lockheed Martin Aeronautics Company Appendix QJ. All requirements of a.-f. shall be accomplished.

Seller shall review testing lab C of C to ensure all required testing has been accomplished and meets all requirements of the applicable testing specification.

- a. Upon Buyer's request, Seller shall provide objective evidence of Seller's review.

In addition the Seller shall also provide for the following:

1. NDT certifications for Fracture Critical parts must include LM Aero approved NDT technique identification number, revision letter and date of approval.
2. Supplier shall be responsible for ensuring that supplier or their sub-tier(s) have the appropriate revision level of the process standards/specifications prior to performing work in connection with the items.
3. Supplier shall maintain objective evidence that each LM Aero approved process source, selected by supplier, is being monitored to assure compliance with all applicable process specifications. Supplier shall provide objective evidence of such compliance to Buyer upon request.
4. Supplier shall ensure process controls are established and required process control tests are accomplished at required intervals to ensure continued compliance to process specifications. Records for all process control tests (e.g., monthly or by lot) and inspection of processed items performed by a LM Aero approved source shall be made available and maintained for at least seven (7) years after completion of this PO.
5. Suppliers are not relieved from the obligation to assure suppliers/processors are in full compliance with applicable specifications and deliver acceptable hardware in compliance with the purchase order.
6. Preferred Parts Handbook – Lockheed requires the use of PPH (Preferred Parts Handbook) when procuring hardware for work in support of a Lockheed contract. The PPH defines by part number those manufacturers that are approved to provide specific hardware.
7. Engineering Materials and Products (EMAP) – Lockheed requires the use of the EMAP when procuring material (other than standard hardware) for work in support of a Lockheed contract. EMAP defines the approved providers of such materials.



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8. Supplier shall maintain activity data on each LMC approved process source utilized by supplier, if any, compile quarterly report, and submit VIA email or LM Aero’s usage report tool within five calendar days of the end of each calendar quarter. The report shall contain the following information if emailed:
- a. QCS-001 source name
  - b. LMC’s assigned QCS-001 source number
  - c. Process specification used by specification number; and
  - d. Quarterly frequency of use.

## 2.2 Airbus

Supplier shall fulfill the requirements of certification and approval by Purchaser as defined in General Requirements for Aerostructure & Material Suppliers (GRAMS AP2190).

All costs associated with Supplier’s quality management system and/or special process certifications, certification maintenance and any other subsequent certification or approval, shall be borne by Supplier.

NOTE: Supplier shall be responsible for its sub-contractors compliance with this provision.

Subcontractors are required to be listed as Airbus approved suppliers.

### 2.2.1 Airbus Material, Sealant & Hardware Manufacturer Verification

The Supplier shall ensure that, all material products (defined as materials, semi-finished products, standard parts and specified parts) used for manufacturing of aeronautical components are:

- Purchased from Airbus approved sources (Approved Suppliers List - ASL) and
- Qualified by Airbus (Qualified Parts List – QPL)

NOTE: Contact your buyer for information regarding manufacturers listed in the QPL.

The supplier must also ensure that their sub-tiers and distributors are purchasing from only approved/qualified sources.

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### 2.3 Sikorsky

The requirements of Sikorsky Aircraft document ASQR-01 is applicable in its entirety. The latest revision posted by Sikorsky at the time of purchase order acceptance will apply.

Sikorsky document SS7777 M&P process specification Index must be adhered to as applicable. Special Processes are identified by a “Q” code in SS7777. The supplier shall also comply with the Sikorsky Aircraft raw material test plan requirements noted in the Approved Source List for Special Processes and laboratories.

### 2.4 Gulfstream

Seller is required to maintain a certified/registered Quality Management System in compliance with SAE AS9100, “Quality Management Systems – Aerospace – Requirements,” as may be amended from time to time. A copy of SAE AS9100 may be obtained from the Society of Automotive Engineers at the following URL: <http://www.sae.org>

All Special Processes performed by Seller or Seller’s Sub-tier suppliers shall be approved by GAC as applicable, prior to performing any Special Process. Reference document: GAC Approved Process Sources.

Seller or its Sub-tier supplier shall provide objective evidence of the conformance of all procured supplies and services. The objective evidence shall be maintained on file by Seller and/or Seller’s Sub-tier suppliers and made available for review by Spirit, its customers or involved authorities (FAA).

- Raw material and fastener chem./phys test reports shall be verified by a third party laboratory a minimum of once every 12 months for each manufacturer.
- For material substitution direction refer to the following Gulfstream standards: GAS30BF Material Substitution List, GAS30TV Material Thickness Substitution, and GAS30J Substitution of Fasteners and Related Hardware.
- Ultrasonic inspection shall be performed in accordance with GAMPS 9101 (Aluminum), GAMPS 9102 (Steel), and GAMPS 9103 (Titanium).
- Laboratory tests shall be performed by **GAC approved or NADCAP accredited** laboratories.

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NADCAP accredited laboratories can be viewed at  
[www.sae.org/servlets/index?PORTAL\\_CODE=PRI](http://www.sae.org/servlets/index?PORTAL_CODE=PRI)

## 2.5 Boeing

Seller shall conform to the requirements of Boeing documents D6-82479 and D6-51991, as applicable. The latest revision posted by Boeing at the time of purchase order acceptance will apply.

Distributors shall be selected based upon their ability to comply with either AS/EN/JISQ 9100, “Quality Management Systems – Requirements for Aviation, Space and Defense Operations,” and/or AS/EN 9120, Quality Management Systems – Requirements for Aviation, Space Defense Distributors.”

**Note:** Methods for demonstrating compliance can include, but are not limited to, Quality Management System certification, second party audit, survey, etc.

The note below is required on the shipping documents of all production and spares orders delivered to The McGinty Machine Company. Place the note text in the area adjacent to the Certificate of Conformance statement on the shipping documents. The note text on the shipping documents must appear verbatim as listed illustrated below, with one exception, The Vendor may replace the word “Seller” with “Company Name” or “We”

“Seller” or “Company Name” or “We” 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.”

Vendor’s that are supplying the material for a product they are producing for The McGinty Machine Company shall validate raw material test reports per BDS Common Terms and Conditions Guide (Q831) found here:

<http://www.boeingsuppliers.com/idscommon/>

### Validation of Raw Material Test Reports for Boeing

When Seller utilizes test reports to accept Seller purchased raw material, the following requirements apply:

Test reports shall be checked 100% against Seller’s requirements and applicable specifications.

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Validation test requirement: Seller shall periodically validate test reports for raw material accepted on the basis of test reports. That validation shall be accomplished by Seller or other independent party through periodic, scheduled tests of raw material samples. Schedules for frequency of tests will be established by Seller based on historical performance of the raw material supplier.

Seller shall retain test reports provided by the raw material supplier, as well as Seller's validation test results as quality records traceable to the conformance of Goods, as specified elsewhere in this Contract.

Customer furnished raw material is not subject to the validation test requirement.

Seller shall implement processes and procedures in support of this clause.

## 2.6 **Bombardier**

The requirements of Bombardier document QP4.6-40 (QP4.6-1 for Learjet) is applicable in its entirety. The latest revision posted by Bombardier at the time of purchase order acceptance will apply.

Hardware and Catalog Items:

In addition to parts built to controlled specification and processes, Bombardier also requires that hardware and catalogue items be purchased only from manufacturers listed in the Bombardier Approved Supplier Listing. Supplier's distributors, if any, do not require Bombardier approval providing they purchased from a Bombardier approved supplier. When QPL qualification is required, hardware and catalogue items shall only be purchased from a QPL manufacturer. When specified by the QPL, an authorized distributor shall be used.

Raw Materials:

Raw materials shall also be purchased only from manufacturers listed in the Bombardier Engineering Control Manual (EMCM-001), various LES or an equivalent Bombardier document as applicable and listed in the Bombardier Approved Supplier Listing.

NOTE: Contact your buyer for information regarding manufacturers listed in the EMCM-001.

When QPL qualification is required, raw materials shall only be purchased from a QPL manufacturer. Supplier's distributors, if any, do not require Bombardier approval providing they purchased from a Bombardier approved supplier.

## 2.7 **Bell Helicopter**

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The requirements of Bell Helicopter document SQRM-001 is applicable in its entirety. The latest revision posted by Bell Helicopter at the time of purchase order acceptance will apply.

**2.8 Triumph Aerostructures – Vought Aircraft Division**

The requirements of Triumph Aerostructures – Vought Aircraft Division document SQAR is applicable in its entirety. The latest revision posted by Triumph Aerostructures – Vought Aircraft Division at the time of purchase order acceptance will apply.

**2.9 Nordam**

The requirements of Nordam’s Supplier Quality Manual (MN-TNG-QA-02) are applicable in its entirety. The latest revision posted by Nordam at the time of purchase order acceptance will apply.

**2.10 Hawker Beechcraft**

The requirements of Hawker Beechcraft’s document QC00 is applicable in its entirety. The latest revision posted by Hawker Beechcraft at the time of purchase order acceptance will apply.

**2.11 Cessna**

The requirements of Cessna’s document CQRS (Cessna Quality Requirements for Suppliers) is applicable in its entirety. The latest revision posted by Cessna at the time of purchase order acceptance will apply.