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Abstract: This document describes the quality is the property of the property	uality managemo	ent system for 14 CFR 21.

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REVISION LOG

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DOCUMENT CHANGE RECORD

Issue	Item	Reason for Change
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Changes to the Quality System are approved by the FAA Manufacturing Inspection District Office (MIDO) prior to implementation.

copyright. The Company immediately notifies the FAA MIDO, in writing, of changes that affect inspection, conformity or airworthiness of approved articles.

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1.0 SCOPE

This quality assurance manual is submitted to the Federal Aviation Administration (FAA) for information and conformance according to Regulatory Compliance requirements. This manual includes verification policies and procedures and instructions for the design, development and manufacture of Parts Manufacturer Approval (PMA) articles for various model aircraft under the authority of Title 14 Code of Federal Regulations (14 CFR).

This manual establishes and maintains a quality assurance system to ensure compliance and conformance with FAA-PMA Articles manufactured for use on certified aircraft or as detail components of an aircraft assembly.

Changes that impact inspection, conformity and airworthiness are only implemented into this manual with prior FAA approval.

The Company notifies the FAA in writing, in advance, when the manufacturing facility is relocated or expanded to other locations. Prior to shipping FAA-PMA parts from a new location, the new facility is evaluated and approved by the FAA.

The Company is committed to the ongoing maintenance and improvement of the quality management system; to ensure this, management focuses on deploying practical steps that positively support quality and environmental policies.

•	CUSTOMER FOCUS:
	•
•	EMPOWERMENT:
•	INTELLIGENT MANAGEMENT:
•	WORKPLACE EXCELLENCE:
16.	

Overview of Responsibility and Authority

The organizational chart in Appendix 1 is an overview of the management structure of the Company. See personnel roster for the name of the Responsible Authority (RA) in each branch of management that includes multiple assignments. In all cases, the appropriate person has



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The Accountable Manager of the Company has been assigned the role of Quality System Management Representative. The Accountable Manager is responsible for

1.3 Internal Communication

To ensure proper communication between and throughout all levels of employees within the Company, internal communication is

This system

requires management to

Management Review

Management Review meetings are conducted according to the QMS-04 Management Process Procedure. This procedure defines

Section A: Design Data Control

Copies of all drawings for FAA Approved articles are

Design data is filed by Drawing Number and the latest revision is

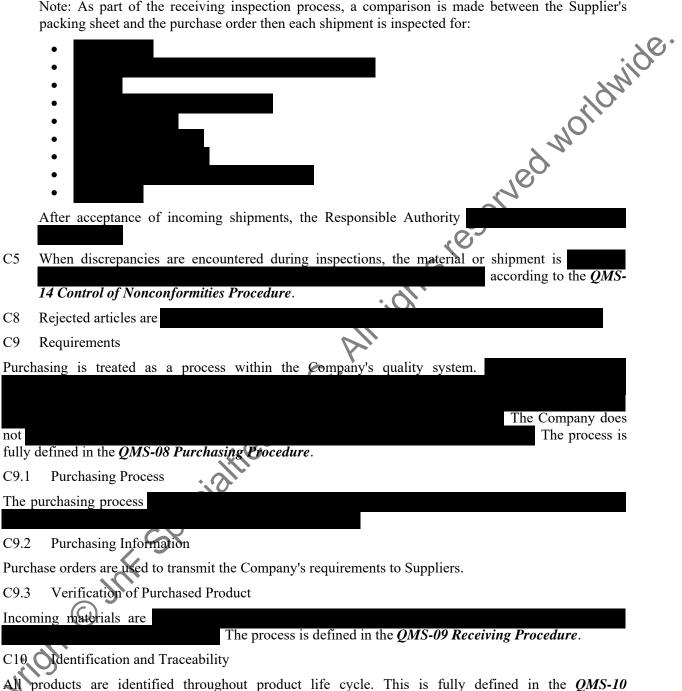
- Minor design changes to the PMA Articles are **A3**
- A4 Major design changes are

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amendments or additions to:	The	se design changes may require
•		
•		e. Wed world
A5 Material Review Board (MRB) is	5	100
Section B: Document 0	Control	
Documents are controlled to ensure inf	formation is	
Control of Documented Information I		ments are defined in the QMS-01
Paper records are controlled to prove established a documented procedure for		
B1 Configuration Manag	gement O	
The configuration of products is control have been built upon the requirements conducted according to the <i>QMS-02 Communication</i>	of	Configuration management is
Section C: Supplier Co	ntrol	

C1	Materials received are required to Supplied items that support manufacturing and or assembly of FAA-PMA articles are inspected for
	a. Reports of unsatisfactory conditions are
i	b. Review of documented unsatisfactory conditions increases An on-site visit may be required that verifies:
8,	
C2	Material is labeled to
C3	Materials are stored .
C4	Vendors supply

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Note: As part of the receiving inspection process, a comparison is made between the Supplier's packing sheet and the purchase order then each shipment is inspected for:



Manufacturing Procedure. Other identification and traceability requirements are



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C11 Preservation of Product

The Accountable Manager

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The instructions are detailed S-11 Shipping Procedure

in the applicable job documentation and general rules are defined in the QMS-11 Shipping Procedure

Section D: Manufacturing Control

The Design and Development process ensures that design activities are conducted in a controlled manner, which is defined in the *QMS-17 Design and Development Procedure*. *Instructions for Continued Airworthiness* (ICA) are kept current with design changes.

- D1 Materials received are required to
- D2 A Shop Routing Sheet is used to document the number of pieces at each step of the manufacturing process and is used to annotate any losses. A shop routing sheet is used for
- D3 The Company uses a folder for
- D4 Parts are inspected to
- D5 Small parts (sub-assemblies) are marked according to *FAR 45.15(b)* with a tag attached to the part or the packaging for the part.
- D6 Parts are permanently marked or tagged with:



D7 Requirements:

The Company plans and carries out processes for product realization. In general, this includes assurances that:



- •
- •
- .

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•		
In-process inspection is conducted ac	ecording to	
These activities are fully defined in		
hroughout product life cycle. Other	r identification and traceability re	quirements are
D7.1 Production Documentation		160
Production operations are performed	according to	
Toduction operations are performed	according to	
	In add	dition, the Company may utiliz
		activities are fully defined in the
QMS-10 Manufacturing Procedure		ment Procedure.
O7.2 Control of Production Proces		
Only the Configuration Control Bo dentifies and obtains Customer a		•
	na or regulatory agenting appro-	
defined in the <i>QMS-10 Production P</i>	Procedure and OMS-17 Design and	These activities are full d Development Procedure .
D7.3 Control of Production Equip	C . A	1
Production equipment, tools and production		
D7.4 Control of Work Transferred	on a Temporary Basis Outside the	Organization's Facilities
When the Company provides supplie		
the following controls:	is for outside processing, such as a	ecceptance testing, it is done und
•		
• •		
; · O		

D7.5 Control of Service Operations

The Company services supplies returned to it for warranty work or repair - field servicing is(is not) performed. For such product work,

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D8 **Customer Property** Where Customer property is provided to the Company for processing or use, it is Damaged or missing Customer property is Government and Customer property is controlled according to the QMS-10 Production Procedure, specified contractual requirements and D9 Preservation of Product The Accountable Manager specifies, where required and according to contractual directives, instructions for The instructions are detailed in the applicable job documentation and general rules are defined in the QMS-11 Shipping Procedure. D10 Identification and Traceability All products are identified throughout product life cycle. This is fully defined in the QMS-10 Manufacturing Procedure. Other identification and traceability requirements are D11 Monitoring and Measurement of Product To ensure the conformance of product to requirements, monitoring and measurement is conducted The Quality Group is responsible for

Inspection methods may include but are not limited to:

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The inspection includes verification of compliance to:
Inspection by statistical sampling is applied, as appropriate and when specified, in
Authorized sampling plans for product acceptance are based on
SAE ARP9013, Statistical Product Acceptance Requirements and documented in work instructions. The specified sampling plan for a designated application is
The specified sampling plan for a designated application is
In the event supplies are needed prior to receipt of Certified Test Data, Certificate of Compliance or Analysis, approved <i>Request for Deviation or Waiver</i> or other limited risk condition, at least two
applicable MRB members may
D11.1 Inspection Documentation
The engineering drawing, FAA-approved design data and/or other technical documentation provide the requirements for all deliverable supplies. In all cases, this includes
D11.2 First Article Inspection (FAI)
When required by purchase order or Customer specification, a First Article Inspection (FAI) is performed. The FAI is

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D12 C . T 1.4			
D12 Competence, Training and A			
All Company personnel are hired or	the basis of their ability to		
The Company has implemented a train	ning program that:	A WOrld's	
The Company has implemented a train	mig program mat.	./0	
•		,,0	
•		10	
•			
•			
•		.0)	
•			
Management conducts periodic revi	ews of employee performance.	Appropriate records of education	
training, skills and experience are			
	The training program is	defined in the OMS 06 Training	
Procedure.	The training program is	defined in the QMS-06 Trainin	

Section E: Inspecting & Testing

- Request For Service Inspectors (RFS) determine that each completed part conforms to the design data and is

 Inspectors perform the following:
 - •
 - •
- E2 RFS Inspectors have access to FAA approved data and specifications when inspecting FAA-PMA articles.

When witnessing acceptance tests, the Inspectors

- E3 All inspection records described above and the record of disposition are
- E4 Requirements

Inspection methods may include but are not limited to:

E4.1 In-Process Inspection

In-process inspections are conducted during production to



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E 4 0	T: 1	T	
E4.2	Final	Inspection	n

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Once all operations are complete, the lot is submitted to Quality for a final inspection. This is performed according to an accepted sampling plan, The sampling plan is

Test Equipment Inspection, Measuring Section F: and Control

- F1 Tools, gauges and test equipment are
- Tools, gauges and test equipment that become inaccurate are F2
- F3 Special tools, shop aids, master gauges or molds manufactured by RFS that are contracted with or purchased from a vendor are
- Inaccuracy of tools, gauges, test equipment and molds identified during periodic inspections are F4
- The Company notifies MIDO of any quality escape. a)
- The Company processes actions according to Section N herein. b)
- Scales, shop aids and measuring devices used for inspection are certified for accuracy when F5 purchased. They are re-certified every 6 months until deemed unserviceable.
 - All inaccuracies are
 - Serviceable certifications are
 - Unserviceable tools are
- Requirements

All measuring and test equipment instruments and devices used to determine an article's conformance to specified requirements are

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Section G: Inspection and T	est Status
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G1	The inspector affixes an initial on the <i>Inspection Record</i> indicating
G 2	
G2	Rejected components are
Se	ection H: Nonconforming Product and Article Control Nonconforming and rejected materials are
H1	Nonconforming and rejected materials are
H2	Nonconforming parts may
H4	Major Change incorporation to FAA-PMA articles are first approved by FAA ACO and MIDO with PMA addition.
Н5	Requirements
All	supplies found to be nonconforming against specified requirements are
defe	
The	procedures include
The	cedures are available that establish a system for receiving, processing and tracking in-service failures. procedures include provisions to Service problems, inworthy conditions, unsafe features and unsafe characteristics are reported to the FAA according to
	R §21.3 (§21.9) and are
Non	See the QMS-14 Control of aconformities Procedure.
_	

Section I: Corrective and Preventive Action II Corrective actions review non-conformities of manufactured articles to:

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•		
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12	Action is taken to:		
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	•		,0
	•		
			reserved
I3	Preventive Action is taken to:		760
	•		6
	•		,e5
	•		
	•		
	•		
I 4	Requirements		
I4.1	Corrective Action	C	
		nd maintains a robust system action. These nonconformities ca	for identifying and reporting
Попсо	morning corrective a	action. These noncomorning ca	.11
		This process is de	efined in the <i>QMS-13 Corrective</i>
Action	n Procedure.	This process is de	simed in the QMD-13 corrective
I4.2	Preventive Action	~	
			ests (used to prevent recurrence of
an exi	sting problem) the Corrective A	process is defined in the <i>QMS-13</i>	Corrective Action Procedure.
<u> </u>	tion I Wondling 9	01	
	tion J: Handling &	Storage	
	All materials are Acceptable finished products are		
. (Parts are		
11.	Parts are		
, (Parts are		
	Requirements: Preservation of P	roduct	
	•		contractual directives, instructions
for	, J 1	1	,



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general rules are defined in the *QMS-11 Shipping Procedure*. approved changes

Section K: Control of Quality Records

The Company controls and distributes

are made available to:

And manage records as:

- The Company retains files for K2

Note: The Company ensures that only FAA approved data is used for manufacturing, instruction and support.

Requirements: Control of Records K3

Paper records are

defined in the OMS-01 Control of Documented

Information Procedure.

Section L: Internal Audits

Request For Service Inspectors conduct Internal Audits according to

See Internal Audit control log:

Requirements: Internal Audit L2

Internal quality audits are conducted to ensure ongoing compliance with requirements of the Company's policies and procedures. This is accomplished by

The internal audit process is fully defined in the *QMS-12 Internal Auditing Procedure*.

Section M: In-Service Feedback

Service Difficulty Reports (SDRs)

M1 When in service difficulties are discovered, they are reported to the FAA ACO and MIDO.

Note: The Company reports 14 CFR 21.3 conditions to the FAA ACO and MIDO within 24 hours, with the exceptions of weekends and recognized holidays.

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Self Disclosure Reporting

M2 When in-service difficulties are found for an article, they are reported to the FAA's geographic MIDO.

Airworthiness Directives (ADs)

- M3 In the event that an Airworthiness Directive is issued by the FAA, the Company immediately implements applicable changes, if any, to articles affected by the AD.
 - When appropriate, changes related to an AD are

Section N: Quality Escapes

A quality escape is defined as any article that has been released from the quality system that does not conform to the applicable design data or quality system requirements.

- N1 The Company notifies the FAA of any apparent quality escape by contacting the FAA MIDO office. Initial notice of a voluntary disclosure may be submitted orally, by electronic means or by written hardcopy.
- N2 Notification is made in a timely manner, normally within 24 hours of the discovery of the apparent quality escape, with the exception of weekends and recognized holidays.
- N3 Quality escape notifications include the following information:

Section: Issuing Authorized Release Documents

The Company may issue authorized release documents for

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The Company ensures that only qualified personnel issue authorized release documents. Evaluation

of persons responsible for authorizing release documents includes

- The Company's authorized personnel issue release documents using *FAA Form 8130-3*.

 O3 Conditional Requirement.

 When applicable, the Company may obtain airworthiness approvals from the FAA.

 Section P: PMA Article Part Marking

 PMA articles: Responsible Authorities permanently and legible and legible are the following: PMA articles: Responsible Authorities permanently and legibly mark all FAA PMA articles with Alligh

 - Sample of marking used on all PMA articles:

Your Sample Markings

P 3

Section Q: Shipping / Export of Completed Articles

- All required documents are
- Before exporting products to other Countries, FAA AC 21-2 and Bilateral Agreements are O2 reviewed for applicable requirements.
- All shipping documents are followed and completed according to

Section R: Supplemental Requirements

Supplemental FAA policies are defined in *QMS-18 Supplemental Policies*.

Appendix 1: Organization

INSERT YOUR ORG CHART

Appendix 2: Facility Layout

INSERT YOUR FACILITY MAP