

<p>UNIVERSALTMAVIONICS an Elbit Systems Company</p> <p>PROPRIETARY NOTICE This document is not to be distributed or copied in part or in whole without written permission from Universal Avionics Systems Corporation.</p>	<p>STANDARD OPERATING PROCEDURE SUPPLIER QUALITY REQUIREMENTS SOP-QA-08.13 REV 09</p>	<p>APPROVALS PROCESS OWNER J. MANUEL VALENCIA</p> <p>QUALITY REPRESENTATIVE KEVIN PHILLIPS</p>
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1. PURPOSE AND SCOPE

This document defines the quality systems that are required for those suppliers, vendors, and subcontractors (hereafter referred to as the “Seller”) providing materials/products and/or services to Universal Avionics (hereafter referred to as the “Buyer”). Revisions to this document are furnished to all active Sellers when the change is deemed significant and warrants re-issue.

The provisions of the Buyer’s subcontract, purchase order, or long-term agreement (hereafter referred to as “Order”) titled “PO Terms and Conditions,” “Technology and Supply Agreement,” or “PO Quality Clauses,” are supplemented by this document which is hereby incorporated by reference into the Order. Seller shall comply with establishing and maintaining quality systems required by this document whether the Order is received by the Seller in paper form or by electronic data interchange.

This document is also intended to aid the Seller in determining which quality level is required relative to the complexity of the product/material/service that is being procured.

In case of a conflict between the contents of this document and any Seller documents, the terms of this document shall apply unless specifically negotiated and accepted in writing by the Buyer.

If the Seller proceeds without an agreed understanding of this document, the Buyer reserves the right to interpret the contents of this document.

All exchange of information (including technical and quality data) shall be in the English language.

The Buyer manufactures and markets an extensive line of advanced avionics equipment. Product lines include Flight Management Systems, Flat Panel Displays, Cockpit Voice / Data Recorders, Enhanced Vision Displays, Pilot Head Wearable Equipment, and other avionic equipment. The Buyer’s products are installed in an airline, corporate, military, and governmental/special mission aircraft (fixed and rotary wing) Worldwide. As such, the seller shall ensure that:

- Their employees understand the importance of ethical behavior
- Are aware of their contribution to product/service conformity and safety.

2. ACRONYMS & DEFINITIONS

- **CAA** – Civil Aviation Authority
- **C of C** – Certificate of Conformance
- **CFR** – Code of Federal Regulations
- **Class 1 Change** – Any change to performance, reliability, maintainability, weight, interface characteristics, electromagnetic characteristics, or interchangeability.

- **Cpk** – Process Capability Index - Cpk measures how close you are to your target and how consistent you are around your average performance with the goal being as close to target as the process is capable.
- **ESD** – Electrostatic Discharge
- **ESDS** – Electrostatic Discharge Sensitive
- **EASA** – European Aviation Safety Agency
- **FAA** – Federal Aviation Administration
- **TCCA** – Transport Canada's Civil Aviation
- **TSO** – Technical Standard Order. Performance standards set by the FAA for materials, parts, processes, and appliances used in civil aviation.
- **TSOA** – TSO Authorization
- **Fit** – Physical size, interconnection, and mounting requirements of an item.
- **Form** – Internal structure (composition material) and the external outline (shape) within the limits set forth in the drawings/specifications.
- **Function** – The attribute of an end item equipment or assembly pertaining to operation or performance (e.g., safety, accuracy, testability, compatibility, reliability, maintainability, etc.)
- **Interchangeability** – Ability of a part to replace or be replaced in the existing end item equipment, irrespective of part number, wherever installed. The replacing part must meet all physical, functional, and structural requirements of the part it replaces and be installed by the application of normal means of attachment.
- **ISO** – International Organization for Standardization
- **AS** – Aerospace Standard
- **Key Characteristic** – An attribute or feature whose variation has a significant effect on product fit, form, function, performance, service life or producibility that requires specific actions for the purpose of controlling variation
- **MRB** – Material Review Board
- **PMA** – Parts Manufacturer Approval
- **STC Holder** – Supplemental Type Certificate Holder
- **OEM** – Original Equipment Manufacturer. A supplier that holds TSOA or PMA on the equipment provided to UA.
- **Performance** – The quantitative specification of an item's characteristics which may include the operating range, limits, and values.
- **Production Approval Holder (PAH)** – A supplier holding FAA or EASA/CAA production approval
- **REACH** – Registration, Evaluation, Authorization and Restriction of Chemicals
- **RoHS** – Restriction of Hazardous Substances
- **Repair** – The subjection of nonconforming material to an approved process designed to reduce but not completely eliminate the nonconformance.
- **Rework** – All work performed on articles with known deficiencies so as to cause such articles to fully comply with documented requirements.
- **RMA** – Return Material Authorization

- **UA** – Universal Avionics (Buyer)
- **Use as is** – Material with minor nonconformances dispositioned by formal MRB where authorized when the material is determined to be satisfactory for its intended use.
- **Class 1 Major Changes** – *Major: A major change is one that is extensive enough to require a substantially complete investigation to determine compliance with applicable airworthiness regulations. Form, fit, or function is typically affected as a result of a major change. A major change will cause the equipment's part number to change. A major change may or may not be backward compatible.*
- **Class 2 Minor Changes** – *A minor change is any change that is not considered "major" (see above definition). A minor change should result in a part number change if the change affects the interchangeability at the aircraft level, impacts the use or installation of the article, or impacts the minimum performance standards of an applicable TSO. If the change is determined to be of significance but does not merit a part number change, the change may be denoted as a Modification status change. A minor change is generally backward compatible.*

3. REQUIREMENTS

3.1. General

During the performance of this Order, the Seller shall perform a self-assessment and determine the applicable Supplier Type (Refer to Table 1). The Seller shall maintain a quality system compliant with the applicable Quality System Requirements Matrix (Refer to Table 2) as applicable to the commodity supplied. The Buyer may assess a different Supplier Type, and the Seller shall meet the minimum requirements of a new Supplier Type assessment (Refer to Table 2). The Buyer uses various verification methods, which may include an on-site audit, to verify that these requirements are met.

In the event that the Seller's quality system is non-compliant, or if the Seller's 3rd party (ISO, AS etc) registration is revoked, suspended, or expires during the performance of the Order, the Seller shall notify the Buyer in writing. The notification shall be within ten (10) working days of the revocation, suspension, or expiration.

If the Seller's status with any other prime aerospace contractor changes to anything less than "Active," the Seller is requested to notify the Buyer's Supplier Quality Engineer within ten (10) days of that change.

Sellers are responsible to ensure that both they and their sub-tier suppliers are in compliance with the applicable requirements of this document.

Seller shall be responsible for providing evidence of compliance with the listed regulatory requirements (where applicable) specified under Section 6 Associated Documents.

3.2. Conflict Minerals

Upon Buyer's request, regardless of whether Seller is publicly traded or not, Seller shall provide information on any Product(s) delivered to Buyer's Buyer which contains Conflict Minerals from Covered Countries, as those terms are defined by and consistent with the Securities and Exchange Commission's final rule on Conflict Minerals, 17 CFR Parts 240 and 249(b), promulgated pursuant to Section 15023 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (the "Rule").

Seller certifies and warrants that all Product(s) that will be delivered to Buyer by Seller are DRC Conflict Free, as defined by and consistent with the Rule.

Upon Buyer's request, Seller shall provide information on any Products delivered hereunder containing Conflict Minerals, as defined in 77 FR 56273, 17 CFR Parts 240, 249, and 249b, Section 13(p) to the Securities Exchange Act of 1934, and Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Action (collectively, "Conflict Minerals Regulations"). Such disclosure shall be and be submitted to the Buyer no later than fifteen (15) business days from the receipt of the request. The Seller shall certify the content contained in the disclosure and shall promptly provide a written update of any change or addition necessary to provide the complete, accurate, and correct information in the disclosure.

3.3. REACH

Seller shall identify and provide notice to Buyer prior to or upon acceptance of these terms of all items containing Substances of Very High Concern (“SVHC”) as defined in the Regulation (“EC”) No 1907-2006 of the European Parliament and of the Council of December 18, 2006, concerning Registration, Evaluation, Authorization, and Restriction of Chemicals (“REACH”).

Seller shall promptly notify Buyer whenever a Product(s) contains a substance that is added to the REACH Candidate List for Authorization.

Seller represents and warrants that the Product(s), its supply, its use, including its incorporation into other products, and its import into the European Union, complies with all applicable REACH requirements, including, but not limited to the registration of substances, and notification and authorization of SVHC.

3.4. Compliance

Seller agrees that it shall require its own subcontractors and suppliers/sellers, at any tier in the supply chain for a Product(s) delivered to Buyer, to furnish information to Seller necessary to support Seller's Conflict Minerals and REACH obligations herein.

Seller will maintain records reviewable by Buyer to support its certifications above.

Seller acknowledges that Buyer may utilize and disclose Conflict Minerals and REACH information provided by Seller in order to satisfy its disclosure obligations.

3.5. UA Audits, Surveys, and Inspections

Prior to the initial award of the Order, a Supplier self-assessment form shall be completed, as requested by Buyer, and returned to the Buyer to appraise the Seller's ability to comply with the requirements of this document. Seller capability and capacity should be discussed during the supplier approval process. Upon completion of this assessment, the Seller will be notified in writing of their acceptability or of any areas of nonconformance. All nonconformances shall be resolved to the Buyer's supplier quality satisfaction before the award of approved status.

Buyer's Quality Department reserves the right to conduct audits, evaluations, and inspections of the Seller's quality system and products to be furnished to the Buyer. In addition, the Buyer reserves the right to conduct audits, evaluations, and inspections of the Seller's subcontractor's quality systems and products to be supplied to the Buyer. These audits, evaluations, and inspections do not relieve the primary supplier of the responsibility to maintain a system for the control of quality products and services from their subcontractors.

3.6. Right of Entry

Buyer may assign representatives from Quality, Purchasing, Engineering, Production, or other personnel as required to visit the Seller's facility during its performance under any UA Order. These representatives will only be assigned to the Seller's facility in connection with the Order.

The Buyer's customers and cognizant government agencies (e.g., FAA, Foreign CAA's, EASA, etc.) shall have the right to visit the Seller's facilities to inspect products, witness inspections and tests, and evaluate the quality system. This right shall also extend to the Seller's subcontractors. Seller shall be notified within a reasonable amount of time by the Buyer to host such events.

3.7. Purchase Order Reviews

Purchase orders issued to the Seller shall be reviewed by the Seller's Quality Organization for the inclusion of the applicable UA quality clauses. Additional customer-specific requirements will be flowed down on purchase orders.

3.8. Personnel Qualification and Workmanship Requirements

Seller shall ensure personnel performing work that affects conformity to the product on Buyer's Orders are competent on the basis of appropriate education, training, skills, and experience and maintain records providing evidence of such competency.

For electronic assemblies, the Seller shall ensure all workmanship meets IPC-A-610 Acceptability of Electronic Assemblies requirements.

For cables and harnesses, Seller shall ensure all workmanship meets IPC/WHMA-A-620 Requirements and Acceptance for Cable and Wire Harness Assemblies.

3.9. Electrostatic Device Protection

Devices identified as electrostatic discharge sensitive shall be handled, stored, packaged, and shipped in such a manner as to preclude damage from electrostatic discharge. Electrostatic protection processes shall be modeled after EIA JESD-625 for Wafer fabrication application, or ANSI/ESD S20.20 for General Requirements for Handling Electrostatic Discharge Sensitive Devices. Electrostatic protection requirements specified on the component specifications/drawings or elsewhere on the Order take precedence over this paragraph.

3.10. Moisture Sensitivity

All surface mount devices must be classified per EIA JESD22-A112-A, test method to a moisture sensitivity level. These devices shall be packaged and identified in accordance with JEP113.

3.11. Receiving Inspection

The Seller shall be responsible to assure all raw materials, parts, assemblies, tests, processes, hardware, and other items purchased from domestic or foreign suppliers conform to procurement requirements. When it is not feasible or practical to inspect upon receipt, the Seller may make provision for source inspection or utilize a system of

supplier control. Regardless of the method used, the Seller is responsible for the quality and configuration of all procured items.

3.12. Test Specimens

The Seller shall provide, upon request of the Buyer, test specimens for design approval, inspection/verification, investigation, or auditing.

3.13. Monitoring and Measurement Equipment

The Seller shall establish and maintain a calibration system that requires all monitoring and measurement equipment used for product acceptance to be calibrated at defined intervals, and calibration history of out-of-tolerance conditions. The system shall provide calibration and recall of all monitoring and measurement equipment used for product acceptance.

Calibrations shall be traceable to a nationally or internationally recognized standard such as the National Institute of Standards and Technology. The equipment should reflect the calibration status or be traceable by a control or serial number to an acceptable calibration record.

3.14. Drawing and Specification Control

The Seller shall have a procedure and designate a responsible person/organization for the distribution to production, inspection areas, and subcontractors as appropriate, all current UA drawings and specifications and changes thereto. The procedure shall also provide for the removal or control of obsolete data from points of issue and use.

3.15. Configuration Management

The Seller shall establish and maintain a configuration management system that includes planning for configuration management, identification of configuration, change control, configuration status accounting, and configuration audit, as appropriate to the product being provided.

3.16. First Article Inspections

A first article inspection (FAI) is required from the Seller on UA designed product in any of the following scenarios:

- Initial part build
- UA part revision changes which affect fit, form, function, interchangeability, safety, strength, performance, service life, or installation at its next assembly shall require a first article inspection for those changes.
- 2+ year production lapse on a given part number
- Manufacturing plant move
- Vendor key process, equipment, or tooling changes which affect fit, form, function, interchangeability, safety, strength, performance, service life, or installation at its next assembly shall require a first article inspection for those changes.

All first article inspection reports shall be included with the shipment of the product to the Buyer.

3.17. Changes to Buyer's Design

Prior to Incorporation, all changes by Seller to "Buyer Designs" shall be coordinated with and approved in writing by UA Engineering.

3.18. Changes to Seller's Design

Prior to Incorporation, all Class 1 changes to "Seller Designs" shall be coordinated with and approved in writing by UA Engineering.

Section below only applies to STC products with PMA:

All Class 1 MAJOR changes and Class 2 MINOR changes to FAA-approved design data are subject to re-approval from the STC Holder under FAA PMA (Parts Manufacturers Approval) in accordance with FAA Regulation 14 CFR Part 21.137 Subpart K.

Prior to release, Class 1 and Class 2 changes to "Seller Designs" shall be coordinated with, and approved in writing by UA Engineering and UA Certification Group for STC products with PMA.

3.19. Final Inspection

Upon completion, all products shall be inspected and/or tested to the extent required to verify conformance to the engineering data and the Order requirements. This is to be performed by an authorized representative of the Seller's quality organization.

3.20. Control of Key Characteristics and Critical Items

Design documentation provided by Buyer through the Purchase Order quote and issuing process to define the item(s) to be purchased may include identification of Critical Items and/or Key Characteristics. These will be identified in text documents with symbols <CI> or <KPC> for Critical Items and Key Product Characteristics, respectively, or with symbols defined in notes on drawings. The Seller shall manage these items and characteristics, if identified, as follows:

- Critical Items – These items (e.g., functions, parts, software, characteristics, processes, etc.) require specific actions by the seller to ensure they are adequately managed. These specific actions, identified in the product definition (drawings, SCDs, etc.) or on the PO, shall be followed by the seller on every product, and adherence to these actions shall be a requirement for acceptance by the Buyer.
- Key Characteristics – When a characteristic is identified as a Key Characteristic in the product definition (drawings, SCDs, etc.), they shall be monitored as follows by the Seller:
 - Perform 100% inspection until a Cpk of 1.33 is obtained
 - Sample Inspection along with control charting per approved Seller QMS statistical techniques may be used for Key Characteristics which have demonstrated Cpk of greater than 1.33 but less than 1.66
 - When Cpk of 1.66 or greater has been obtained, an inspection of Key Characteristics is no longer required, provided the process remains in control as evidenced by a control chart

3.21. Nonconforming Parts or Materials

In the event of delivery of discrepant material, the Seller is subject to the receipt of a Corrective Action Request. The Seller is required to provide a Cause and Corrective Action statement within the due date specified on the Corrective Action Request document. An extension may be granted with approval by the Buyer's Supplier Quality Organization.

Failure to comply with the Corrective Action process requirement may jeopardize compliance with the Order requirements. In the event that the Seller fails to remedy discrepancies as required by the Corrective Action Request, or if the Seller fails to make progress so as to endanger the performance of the Order, the Buyer may exercise its rights and remedies under the Buyer's Terms and Termination section of the Technology and Development Supply Agreement or Termination Clause of the Buyer's PO Terms and Conditions document SOP-MMD-08.11.

Seller shall request from Buyer a Deviation Request Form when requesting to ship a product that does not conform to specifications. Seller shall not ship nonconforming

product until receipt of a signed Deviation Request Form which shall constitute approval to do so.

The Seller shall immediately notify the Buyer when the Seller determines that the previously shipped product is nonconforming.

3.22. Material Review Procedure

The Buyer does not delegate material review authority to any Seller for UA designed parts.

Material review authority is granted for Seller that retains design authority or those granted design authority by UA with the exception of any MRB repairs that affect Fit, Form, Function, Interchangeability, safety, reliability, strength, performance, service life, or installation at the product's next assembly. Any repairs that affect the above shall obtain approval in writing from Buyer prior to incorporation or shipment.

3.23. Returned Purchased Material – (RMA)

When the Buyer returns material to the Seller for failure to comply with Order requirements, the Seller will be notified. RMA request responses should be provided within two (2) business days.

When a Nonconformance (NC) has been issued by the Buyer, the NC number shall be referenced on all accompanying documentation.

For each product rework per a Purchase Order or NC, the Seller shall provide a C of C.

For any product that has been returned to Seller three (3) times for the same failure or five (5) times for different failures, Seller shall not return such product to Buyer but replace with a new product.

In the event the Seller disputes an NC, the Seller shall immediately notify the Buyer purchasing agent and Supplier Quality Engineer to achieve resolution and update Non Conformance Disposition instruction when applicable.

Seller's shipping documents shall refer to the UA NC number and indicate the product is being returned as either Reworked, Repaired, or Replaced.

3.24. Records

The Seller shall maintain records of all inspections and tests for seven (7) years unless otherwise specified by Contract. These records shall be available to the Buyer and regulatory authorities upon request and shall include, as applicable but not limited to, Receiving Inspection, First Article Inspections, In-Process and Final Inspection results, Traceability and Serialization, completed Manufacturing Routers / Plans, Material Test Reports, records required by DO-178, DO-160, DO-200, IPC, etc. Records shall provide evidence of conformity to requirements and to the effective operation of the quality system. Reference Table 2.

If applicable, the Seller shall maintain all software related development, design, or test documents, as well as records of all changes made to the software code and/or the specified documents, for the service life of the end item. The Seller shall establish a system for assuring software configuration traceability with respect to each end item installed on a UA product.

3.25. Buyer Furnished Property

When the material is supplied by the Buyer to be used in conjunction with or to be included in products to be supplied to the Buyer, the Seller's internal procedures and practices shall include the following:

- Examination of material upon receipt for shipping and handling damage.
- Conformance of inspection to applicable drawings and specifications upon receipt.
- Functional testing, when applicable, to determine satisfactory operation.
- Periodic inspection to ensure adequate storage conditions and material preservation.
- Provisions for scrap, return, or forwarding of unused or unusable material.

Damaged or discrepant Buyer furnished property shall be identified and placed in a restricted area if physically possible. The Buyer's purchasing agent shall be notified immediately.

Damage or discrepancies not identified at the time of receipt shall be the Seller's responsibility.

3.26. Delegated Inspection Duties

Buyer may delegate inspection duties to specific approved Sellers of Buyer's designed products.

This delegation of inspection duties does not constitute final acceptance by the Buyer, nor shall it relieve the Seller of their obligation under the Order. The Seller maintains the responsibility to furnish an acceptable product that is in conformance with drawings and specifications, whether produced by the Seller or its subcontractor.

Buyer reserves the right to rescind the delegation of inspection duties as deemed necessary or when performance is considered unsatisfactory by the Buyer's quality organization.

3.27. Changes in Facility or Quality Systems

The Seller shall notify the Buyer in writing of any change in management/ownership, facility relocation, significant sales expansion or reduction, ERP System changes or any changes to the Seller's product, manufacturing processes, or quality system that could affect the Seller's ability to meet the requirements of this document or order prior to change. The seller shall use FRM-QA-08.12 Supplier Change Notification Form. In cases of significant change, as determined by the Buyer, continual approval of the Seller's quality system shall be subject to the Buyer's review of those changes.

3.28. Continued Airworthiness Assistance

The Seller shall assist the Buyer, upon request, in the development and maintenance of the Buyer's Component Maintenance Manuals, Installation Manuals, Operating Manuals, or any other documentation required to support the Buyer's regulatory requirements for maintaining their products in an airworthy condition.

3.29. Packaging and Shipping

3.29.1. General Packaging

The Seller shall maintain a system that assures the adequate quality of the packaging and shipping phase. The use of commercial packaging practices does not relieve the Seller of the responsibility for properly controlling the packaging and shipping function in a manner that will prevent damage in transit and in handling. Packaging of electrostatic sensitive devices shall use ESD safe materials, including fillers for all inner packaging. Packaging shall not be from ozone-depleting materials or other hazardous or environmentally damaging materials. Styrofoam peanuts are not acceptable.

3.29.2. Tape and Reel Packaging

Tape and reel components shall meet the requirements in EIA-481(Latest Revision), 8mm through 200mm Embossed Carrier taping and 8mm & 12mm Punched Carrier Taping of Surface Mount Components for Automatic Handling. The clearance between components and the cavity must be within 0.05mm to 0.50mm maximum. The component shall not rotate more than 10 degrees within the determined cavity. The allowable camber from the top view is 1mm/100mm non-accumulative over 250mm. The buyer requires all surface mount components be provided on tape and reel unless specified otherwise in writing.

No more than one date/lot codes shall be on any reel without prior approval from Buyer.

3.29.3. Tray/Tube Packaging

No more than one date/lot code should be in any one tray/tube. Trays/tubes with different date/lot codes must be packaged in separate ESD bags. All products in trays/tubes should be oriented in the same direction.

The maximum length of tubes is 22 inches. Tube orientation is indicated by a green pin for pin 1 and a white or clear pin for the opposite end. Only stoppers, pins, or pink cushioning material should be used to prevent products from sliding in the tube.

Appropriate trays, including lids, shall be used to prevent component lead damage. Stacked trays shall be banded to prevent trays from shifting.

3.29.4. Labeling

All receipts in boxes shall be labeled with the package ID being the Buyers part number, quantity in the box, and the PO number.

All packages must have a label marked with a barcode and human-readable information unless the Seller does not possess barcode capability. Barcodes may be printed in Code 128, or code 3 of 9 (code39).

3.29.5. Shipping Documentation

The Seller shall include with the shipment, a Packing List and C of C. The following information shall appear in any combination on these two documents:

- Manufacturer's name
- Manufacturer's part number
- Manufacturer's traceability number and quantity of each traceability number (serial number, date code, lot code, etc.)
- Buyer's Purchase Order number
- Buyer's part number and revision
- Shelf life information, if applicable
- FAA Form 8130-3 Airworthiness Approval Tag for OEMs.
- EASA Form 1 for European OEMs. See Section 5 exception.

If the end item manufacturer is other than the Seller, the actual manufacturer shall be identified on the Packing List.

The Seller shall be responsible for correcting all Seller paperwork errors prior to acceptance into Buyer's inventory.

3.29.6. Subcontracting of the Order

The Seller shall not subcontract in whole, or substantially in whole, the performance of any Order without the prior written consent of the Buyer.

3.30. Counterfeit Parts Detection and Avoidance

The Buyer's overarching strategy for reducing the risk of inclusion of counterfeit parts in production products is that parts are to be purchased directly from the OCMs/OEMs or through the OCM/OEM's Franchised Distributor whenever possible. The buyer expects that OCMs/OEMs, or the OCM/OEM's Franchised Distributor possess a Counterfeit Parts Detection and Avoidance program that meets the requirements of one of the following:

- IDEA-STD-1010 (inspection standard addressing the needs for the inspection of electronic components traded in the open market)
- SAE AS5553(Fraudulent/Counterfeit electronics parts
- SAE AS6081 (Distributor fraudulent/counterfeit electronic parts: avoidance, detection, mitigation, and disposition).

The Buyer requires that all parts be guaranteed new and unused, in original manufacturer's packaging (unless otherwise approved by UA), and free from any and all defects.

The Seller may request further information from the buyer; further information is delineated in SOP-MFG-08.15 Detection and Avoidance of Counterfeit Electronic Parts.

4. SELLER RESPONSIBILITIES

The Seller shall be responsible to ensure that both they and their sub-tier suppliers are in compliance with the applicable requirements of this document. Reference Table 2. The Seller shall notify the Buyer in writing of all changes as prescribed in Section 3.25 that affect its business relationship with the Buyer.

5. REQUIREMENTS FOR ORIGINAL EQUIPMENT MANUFACTURERS (OEM)

OEMs are required to provide FAA Form 8130-3 Authorized Release Certificates for all products certified with PMA and/or TSOA.

All 8130-3 forms shall have the Buyers part number listed on Block 12 of the form.

OEMs shall support the Buyer with exporting their products to the Buyer's customers by providing upon request, FAA Form 8130-3 Authorized Release Certificate to the country of destination.

OEMs with ETSO European Technical Standard Order Authorization are required to provide EASA Form 1 Authorized Release Certificates for all products certified.

EASA Form 1 is optional for products in which Elbit Systems and UA hold joint PAH.

6. ASSOCIATED DOCUMENTS

Document Type	Document Number	Title
FAA Regulation	14 CFR Part 21.137	Quality System
Advisory Circular	AC 21-43 Production Under 14 CFR Part 21, Subparts F, G, K, and O	Detecting and Reporting Suspected Unapproved Parts
Advisory Circular	AC 21-43A	Production Under 14 CFR Part 21, Subparts F, G, K, and O
Aerospace Standard	AS9100	Quality Management Systems – Requirements for Aviation, Space and Defense Organizations
JEDEC Standard	EIA JESD-625	Requirements for Handling ESDS Devices
ANSI Standard	ANSI/ESD S20.20	Electronic Discharge Control Program
JEDEC Standard	EIA JESD22-A112-A	Test method to a moisture sensitivity level
JEDEC Standard	JEP 113	Symbol and Labels for Moisture Sensitive Devices
EIA Standard	EIA-481	8mm through 200mm Embossed Carrier taping and 8mm & 12mm Punched Carrier Taping of Surface Mount Components for Automatic Handling

Document Type	Document Number	Title
Standard Operating Procedure	SOP-QA-08.02	Supplier Control Program
Standard Operating Procedure	SOP-QA-08.04	Certified Supplier Program
Standard Operating Procedure	SOP-MFG-08.15	Detection and Avoidance of Counterfeit Electronic Parts
Standard Operating Procedure	SOP-MMD-08.11	Purchase Order Terms and Conditions
Form	FRM-ADM-08.12	Supplier Deviation Request Form
Form	FRM-QA-08.09	Acknowledgment Form
Form	FRM-QA-08.12	Supplier Change Notification Form

7. REVISION HISTORY

Date	Revision	Changes
09/18/2020	07	Added reference to FRM-QA-08.12 Supplier Change Notification Form.
09/22/2022	08	Added customer specific PO note flow down (Section 3.7) Added EASA Form 1 Requirement in Section 5.29 and exceptions on Section 5.4.
10/23/2025	09	Added changes to design data specific requirements for STC Holders with PMA (Section 3.18). Added (Section 3.1) request for compliance with the listed regulatory requirements (where applicable) specified under Section 6. Added EASA Form 1 requirements.

Table 1 Supplier Type Definition

Supplier Type	Description
Broker	Supplier of hard to find specific product which are not typically available because of OEM discontinuance or obsolescence.
Distributor	Distributes multiple manufacturers catalog products.
Value Add Services	Does not manufacture or distribute but processes existing products. Examples: Moisture sensitive component baking, Parylene coating, Component Lead Straightening, BGA re-ballling, etc.
Manufacturer-COTS – Critical	Manufacturer of Off the Shelf (catalog) product that are used directly in a UA PMA/TSO Products.
Manufacturer-Custom	Manufacturer of UA designed parts
Software	Suppliers of Software or Firmware used in the creation of UA products
OEM	Suppliers that hold an FAA/CAA Design and/or Production Approval. Examples: Products with TSO/PMA held by the supplier, which will pass through UA and may include UA markings.

Table 2 Quality System Compliance Matrix

		Supplier Type							
Section	Title	Broker	Distributor	Value Add Services	MFG – COTS	Critical	MFG-Custom	Software	OEM
Supplier Quality System Requirements									
1	Purpose and Scope	X	X	X	X	X	X	X	X
3.1	General	X	X	X	X	X	X	X	X
3.2	Conflict Minerals	X	X	X	X	X	X		X
3.3	REACH Declarations	X	X	X	X	X	X	X	X
3.4	Compliance	X	X	X	X	X	X	X	X
3.5	UA Audits, Surveys and Inspections	X	X	X	X	X	X	X	X
3.6	Right of Entry	X	X	X	X	X	X	X	X
3.7	Purchase Order Reviews	X	X	X	X	X	X	X	X
3.8	Personnel Qualifications and Workmanship Requirements	X	X	X	X	X	X	X	X
3.9	Electrostatic Device Protection	X	X	X	X				X
3.10	Moisture Sensitivity	X	X	X	X				
3.11	Receiving Inspection	X	X	X	X	X			X
3.12	Test Specimens	X	X	X	X	X	X	X	X
3.13	Monitoring and Measurement Equipment, M & ME			X		X			X
3.14	Drawing and Specification Control			X	X	X	X	X	X
3.15	Configuration Management				X		X	X	X
3.16	First Article Inspections			X	X	X			X
3.17	Changes to Buyer Designs			X		X	X		
3.18	Changes to Seller Designs				X		X	X	X
3.19	Final Inspection	X	X	X	X	X			X
3.20	Control of Key Characteristics and Critical Items			X	X	X			
3.21	Nonconforming Parts or Materials	X	X	X	X	X	X		X
3.22	Material Review Procedure			X	X	X			X
3.23	Returned Purchase Material	X	X	X	X	X			X
3.24	Records	X	X	X	X	X	X	X	X
3.25	Buyer Furnished Property			X			X		
3.26	Delegated Inspection Duties		X	X	X	X	X		
3.27	Changes in Facility or Quality System	X	X	X	X	X	X	X	X
3.28	Continued Airworthiness Assistance				X	X			X
3.29.1	General Packaging	X	X	X	X	X			X
3.29.2	Tape and Reel Packaging	X	X	X					
3.29.3	Tray / Tube Packaging	X	X	X					

Supplier Quality System Requirements		Supplier Type						
		Broker	Distributor	Value Add Services	MFG – COTS	Critical	MFG-Custom	Software
Section	Title							
3.29.4	Labeling	X	X	X	X	X		X
3.29.5	Shipping Documentation	X	X	X	X	X		X
3.29.6	Subcontracting of the Order			X		X		
3.30	Counterfeit Parts Detection and Avoidance	X	X					X
4	Seller Responsibilities	X	X	X	X	X	X	X
5	Requirements for OEMs							X

Table 3 Quality Records Table

Record ID	Responsible	Index	Location / Protection	Retention Period	Disposition
Supplier Deviation Forms	Receiving Inspection Supervisor / SQE	Supplier Name and ID Number	Electronically INFOR LN	10 years minimum	Archived
Supplier Change Notification Forms	SQE	Supplier Name and ID Number	Electronically INFOR LN	10 years minimum	Archived
Supplier Reviews / Audits	Receiving Inspection Supervisor / SQE	Supplier Name and ID Number	Electronically INFOR LN	10 years minimum	Destroyed
Supplier Corrective Action	Receiving Inspection Supervisor / SQE	Supplier Name and ID Number	Electronically INFOR LN	10 years minimum	Archived
Approved Supplier List	SQE	Supplier Name and ID Number	Electronically INFOR LN	Ongoing	N/A