

AAR Supply Chain, Inc.

DBA: Aircraft Turbine Center (ATC)

DBA: Allen Asset Management (AAM)

DBA: AAR Distribution (AAMD)

DBA: AAR Defense System & Logistics (DS&L)

Supplier Quality Requirements Manual

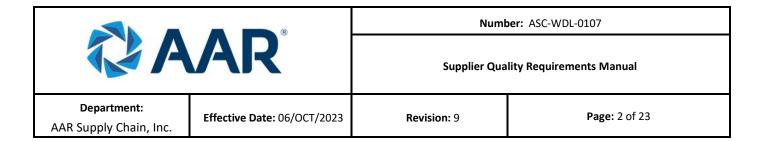


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1.0 Introduction:

- 1.1 AAR Supply Chain, Inc. (AAR) recognizes the value and importance our services provide to the aviation community by supporting the continued operation of air carriers, repair and overhaul facilities, and manufacturers worldwide. AAR provides to its customers the highest quality of aviation products and materials. This achievement is due in part to our established quality system, which ensures that the requirements of our customers and all current regulatory requirements are met or exceeded.
- 1.2 This document is the controlling document to establish applicable quality requirements for all suppliers providing products, aircraft articles or services to AAR.
- 1.3 The supplier will have access to the latest version of this document through the link provided on AAR's Purchase Order or Repair Order.
- 1.4 It is essential the supplier fully understands the requirements of this document and any associated technical documents before bidding on, manufacturing, performing maintenance on or delivering products and/or articles to AAR. It is the supplier's responsibility to understand and comply with all clauses, terms and conditions specified within a contract and with all other applicable requirements.
- 1.5 Any questions regarding this document may be directed to supplier.qa@aarcorp.com.
- 1.6 Management of AAR's Quality Assurance Department must approve any deviations to the requirements included herein.
- 1.7 AAR Supply Chain, Inc. does business as:
 - a) Aircraft Turbine Center (ATC)
 - b) Allen Asset Management (AAM)
 - c) AAR Distribution (AAMD)
 - d) AAR Defense System & Logistics (DS&L)

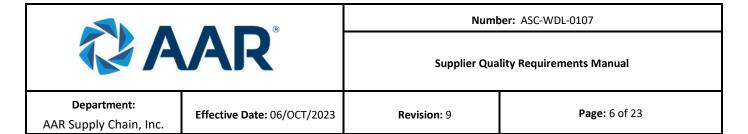
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2.0 Applicability:

- 2.1 The AAR Purchase Order (PO) / Repair Order (RO) is the official binding contract in the order of precedence described in the Terms & Conditions of Purchase. Requirements specified within this document are intended to be complementary to all contract requirements and other requirements which may require compliance by the supplier, including any legal, regulatory, or administrative requirements
- 2.2 Orders in support of U.S. Government contracts must comply with the applicable FARs and DFARs as flowed down.
- 2.3 AAR's customer's requirements may be provided in conjunction with or in lieu of this document on an individual purchase or repair order basis.
- 2.4 This document advises suppliers that AAR, its customers, and regulatory agencies possess the right-ofentry to their facilities. Entry must provide access to quality system documentation, quality records as well as the ability to conduct audits, verify product and processes.
- 2.5 The supplier must provide this document in its entirety to their sub-tier suppliers.
- 2.6 AAR's Quality Management System (QMS) requires that all suppliers shall:
 - 2.6.1 Maintain a quality management system.
 - 2.6.2 Use customer-designated or approved external providers, including process sources as applicable.
 - 2.6.3 Notify AAR of nonconforming processes, products, articles, or services and obtain approval for their disposition. Material Review Board (MRB) authority must not be exercised without the written consent of AAR.
 - 2.6.4 Have a documented process to prevent acceptance and report information of unapproved or counterfeit parts into their quality system in accordance with the latest revisions of AC 21-29, AC 20-154, AS5553, AS6174 or DFAR 252.246-7007, as applicable.
 - 2.6.5 Notify AAR of changes in product, processes or services, status of certification (if applicable) including change of external providers or location of manufacture and where required, obtain AAR's approval.
 - 2.6.6 Flow down to external providers the applicable requirements including customer requirements.
 - 2.6.7 Provide documentation as identified in the Purchase Order Documentation Matrix.
 - a) Material that is for non-flight use, ground support or is not manufactured, produced, or certified under a Type Certificate, Production Certificate or a recognized Aviation Industry Standard is not applicable to these Supplier Quality Requirements. Such material will only require trace paperwork and manufacturer's CofC.

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- 2.6.8 Unless otherwise specified, all quality records must be maintained by the supplier for a minimum of seven years after product shipment. Records for critical components must be retained for seven years or as defined by regulatory and/or contractual requirements. Quality Records include, but are not limited to:
 - a) First Article Inspection Reports/First Article Inspection Tests
 - First Article Inspection Reports shall be completed in accordance with the latest revision of AS9102.
 - b) Work Orders
 - c) Inspection Criteria
 - d) Test and Inspection Results
 - e) Nonconforming Material Documentation
 - f) Certifications
- 2.6.9 Records must be made available to AAR, AAR's Customers and Regulatory Authorities upon request.
- 2.6.10 Allow AAR or their customers and Regulatory Authorities the right of access to any applicable areas of their facilities, at any level of the supply chain involved in the order and to all applicable records.
- 2.6.11 Ensure that employees are aware of their contribution to product or service conformity, product safety and the importance of ethical behavior.
- 2.6.12 All products, articles, parts, or materials must be provided to AAR in the latest configuration unless otherwise specified within the purchase order.
- 2.6.13 To meet the Maintenance Annex Guide (MAG) requirements, AAR requires all new eligible commercial aviation products/articles to be traced to the Production Approval Holder (PAH) and accompanied by an authorized release document. U.S.-PAH components must be documented on a FAA Form 8130-3, EU-PAH components must be documented on an EASA Form 1, and Canadian-PAH components must be documented on the Transport Canada Civil Aviation (TCCA) Canadian Form One. UK-PAH components must be documented on the CAA Form 1. Standard parts are not subject to the MAG requirements.
- 2.6.14 Suppliers shall not disguise the pedigree of material or chain of ownership by removal of a previous supplier's name, nomenclature, or identification.
- 2.6.15 Unauthorized material substitutions are not permitted. This includes any deviation from the engineering definition of a raw material. Engineering definition includes design drawing and applicable specifications, product specification, form, size, shape, chemistry, melt method, origin, temper/condition, product testing or surface finish. Alternate materials specified in an engineering definition (and often described as approved material substitutions) do not constitute unauthorized material substitution.
- 2.6.16 Items shall be free of any foreign objects, debris, or contamination (FOD). All material supplied to AAR must have openings capped or plugged. Supplier shall maintain a FOD prevention program in accordance with National Aerospace Standard NAS-412 Foreign Object Damage/Foreign Object Debris and AS9146 Foreign Object Damage (FOD) Prevention Program Requirements for Aviation, Space and Defense Organizations, as applicable.
- 2.6.17 Supply product that does not contain or come into contact with asbestos or mercury.



- 2.6.18 Ensure the goods supplied to AAR contain less than 0.1% by weight of any Candidate List Substances (CLS) or shall notify AAR of which CLS's are present if greater than 0.1% by weight (REACH compliance). The Candidate List pursuant to Article 59 of REACH has been published by ECHA at: http://www.echa.europa.eu/chem_data/candidate_list_table_en.asp
- 2.6.19 Not knowingly supply to AAR any product containing Tantalum (and all its derivatives), Tin, Tungsten or Gold from the Democratic Republic of Congo, Burundi, Central African Republic, Rwanda, Tanzania, South Sudan, Uganda, and Zambia. AAR, as a supplier to publicly traded companies, requires suppliers to perform a due diligence effort to make these determinations (Conflict Minerals "The Dodd-Frank Wall Street and Consumer Act.").

3.0 Purchase Order Documentation Matrix: "Reference Section "4.0" & "5.0" for Documentation Matrix Codes & Notes"

Part Supplier	Part Condition	Standard Parts (Note 5.1 & 5.5)	Life Limited (Note 5.2) Time Controlled (Note 5.3)	Repairable / Recoverable / Rotable Parts	Expendable Parts and Material (Note 5.4 & 5.5)
TC, PC, STC, TSOA, PMA Holder OEM or Foreign Mfr.	New	(A or D) + F	(A or D)+(B or C)	(A or D) + (B or C) + H	(A or D) + (B or C) + H
FAR 121/125/	New	D	D + H + (B or C)	D + H + (B or C)	D + H + (B or C)
129/135/137 Operator/ Air Carrier or Foreign Operator/Carrier	Overhauled / Inspected / Repaired (Note 5.6, 5.7 & 5.10)	N/A	[(B+C) or I] +D +G	[(B+C) or I] +D +G	N/A
(Non FAR 129)	As Is or As Removed	N/A	D+G	D+G	N/A
	New	D	D + H + (B or C)	D + H + (B or C)	D + H + (B or C)
FAR 145 Repair Station	Overhauled / Inspected / Repaired Note 5.6, 5.7 & 5. 10)	N/A	[(B+C) or I] +D +G	[(B+C) or I] +D +G	N/A
	As Is or As Removed	N/A	D+G	D+G	N/A
	New	D+E (Note 5.8)	(A,B or C)+D+E+H	(A,B or C)+D+E+H	(A,B or C)+D+E+H
Distributors & Other Supplier	Overhauled / Inspected / Repaired (Note 5.6, 5.7 & 5. 10)	N/A	[(B+C) or I] +D+E+G	[(B+C) or I] +D+E+G	N/A
	As Is or As Removed	N/A	D+E+G	D+E+G	N/A

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4.0 Documentation Matrix Codes:

- a) Authorized shipping ticket, DD Form 250, invoice, packing list, etc. from the Type Certificate (TC) or Production Certificate (PC) holder/licensee with the TC/PC number listed, showing transfer of ownership to the purchaser.
- b) FAA Form 8130-3, TCCA Form One or equivalent Authorized Release Certificate.
- c) EASA Form 1, UK CAA Form 1, or an equivalent form.
- d) Part or Material Certification, ATA 106, or an equivalent from a regulated supplier (seller/consignor) showing transfer of ownership to the purchaser/consignee. (Note 5.9)
- e) Part or Material Certification, ATA 106, or an equivalent from a non-regulated supplier (seller/consignor).
 - A Part or Material Certification, ATA 106 or an equivalent is required from anyone who subsequently bought and sold or consigned the item(s) establishing complete traceability from the regulated source to the seller/consignor. Supporting documentation can include invoices, packing list, Certificate of Conformance, material certificate, bills of sale, sales agreements, consignment agreements and removal tags from engine and aircraft teardown.
- f) Certificate of Conformance.
 - For DS&L orders, the title of the individual signing the CofC is required to be listed on CofC per 48 CFR 52.246-15, when applicable (FAR 52.246-15 must be in AAR PO/RO flow down).
- g) A statement certifying that the product or articles were not exposed to extreme conditions such as involvement in an accident, incident, or fire. For material that passed through multiple hands a non-incident statement is required from each entity
- h) Requires trace to the Production Approval Holder (PAH).
- i) FAA Form 8130-3 or TCCA Form One with EASA dual release, or EASA Form 1 with FAA dual release or UK CAA Form 1 with FAA Dual Release.

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5.0 Notes:

- 5.1 The documentation must state the appropriate specification that the part meets. It must be issued by the manufacturer of the part including a statement specifically certifying conformity with an established industry or U.S. specification.
- 5.2 The seller/consignor must supply documentation indicating the "Cradle to Grave"/"Back to Birth" history of the part.
- 5.3 The seller/consignor must supply documents indicating hours, cycles and/or days since the last maintenance was performed and must supply the records of work accomplished.
- 5.4 Shelf-life controlled items must have a minimum of 80% life remaining at time of receipt by AAR Supply Chain, Inc. for commercial items, 85% life remaining for Defense Systems & Logistics.
 - 5.4.1 Rotable items: Shelf-life expiration or inspection due date must be noted on the Authorized Release Certificate, shop report or Certificate of Conformance.
- All hardware (nuts, bolts, washers, O-rings, etc.) must be in OEM or manufacturers packaging, have an OEM/PAH or manufacturer's part ID tag in or on the bag and/or be properly identified/labeled by an authorized distributor for the OEM/PAH.
- 5.6 Each DER, IEN, Departure Record, DICA, Technical Variance or Airline Specific repair/inspection must be pre-approved by AAR for each item. All material having DER, IEN, Departure Record, DICA, or Technical Variance performed must have manufacturer or regulatory authority approval details accompanying the Authorized Release Certificate.
- 5.7 For Sub-Contracted Repairs, AAR requires a notation referencing the repair that was sub-contracted on the Authorized Release Certificate, and a copy of the paperwork from the subcontractor certifying the work that was performed.
- 5.8 A manufacturer's Certificate of Conformance (CofC) is required when traceable to the manufacturer.
- 5.9 In lieu of an ATA 106 form, the equivalent document must contain the following information:
 - a) Part number
 - b) Serial number or indication that item is not serialized
 - c) Quantity
 - d) Condition
 - e) Purchaser/Consignee name (AAR)
 - f) Sellers or Consignor's name
 - g) The signature of an authorized employee of the supplier
 - h) Date
 - i) TSN & CSN, when applicable
 - j) Last operator (if applicable)
 - k) Ex-ESN, MSN, or tail number the part(s) was/were removed from (if applicable)
 - I) Ref: Lot Buy
 - m) Last Certified agency (for Serviceable/Overhauled material only)
- 5.10 For maintenance performed on military items, a Certificate of Conformance is acceptable when accompanied by a workscope, strip report or statement of work. If airworthiness release is accomplished by the issuance of an FAA Form 8130-3 the EASA dual release is not required.

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6.0 Additional Requirements & Remarks:

- 6.1 All portions of the requirements summary (Purchase Order Documentation Matrix) that do not contain a letter defining the documentation requirements mean that such combinations are not acceptable.
- 6.2 All inspected, tested, modified, repaired, overhauled, or rebuilt products or articles must be maintained in accordance with approved Maintenance Manuals and list Inspection(s), revision, revision date, repairs, Airworthiness Directives, Service Bulletins, etc.
 - 6.2.1 A Dual Release is required for all return to service material.
- An original authorized release certificate i.e., FAA Form 8130-3 is required. Copies will only be acceptable in those cases where the products are new and/or quantities ordered by AAR are less than the quantities in the documents. These copies are required to be split stamped per FAA Order 8130.21 Splitting Bulk Shipments.
- Any material traceable to a military source will not be accepted, unless specifically stated on the Purchase Order, excluding material purchased to fulfill military contract(s) by DS&L.
- 6.5 It is AAR's Policy not to purchase any incident related parts.
- Any material purchased on an exchange or from a supplier's rotable pool must be accompanied by the certification outlined in the (Purchase Order Documentation Matrix).
- 6.7 Lot Purchases/Consignments
 - 6.7.1 Certification requirements:
 - a) for material obtained by or traced to or through AAR's supplier via a lot purchase / consignment,
 - b) for material sold/consigned to AAR in a lot sale/consignment are as follows:
 - A material certification form, ATA 106 form, or acceptable equivalent signed and dated by an authorized employee of the seller/consignor.
 - A manifest of the material including:
 - o The Buyer or consignee name and contract/reference number
 - The Seller or consignor name and contract/reference number
 - Each page of the manifest must have at a minimum the following:
 - o Contract/reference number
 - Page number
 - o Signature or stamp or initials from an authorized employee of the seller/consignor
 - For each item on the manifest the minimum data required is:
 - Part number
 - Serial number or indication that the item is not serialized.
 - Quantity
 - Condition
 - For Life-Limited Parts (time or cycle limited)
 - Total Part Time
 - Total Part Cycles

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6.8 Life Limited Parts (LLP's):

- 6.8.1 Life limited parts must be provided with records that accurately trace the parts history back to new.
- 6.8.2 If the part was installed on more than one engine, the requirements of the above paragraph shall be met, plus disk sheets or logbook entries with part number, serial number of the part, serial numbers and model numbers of all engines or airplanes that the parts were installed on and removed from back to birth. These sources of information, (maintenance release tags, disk removal/installation sheets, logbook entries, etc.) shall accurately trace the history of all Life Limited Parts back to new.
- 6.8.3 For all LLP's, new or used, a birth document is required (i.e., New FAA Form 8130-3, PWA transfer ticket, GE shipping ticket, Major Rotating Part form, GE Historical Data Report, manufacturer industry item list or engine configuration listing).
- 6.8.4 Each LLP shall be accompanied by a document produced by the operator/owner at the time the part was removed from the engine or aircraft. Also known as an "Off-Log". In addition, a document signed by an authorized individual is required certifying part number, serial number, total time, total cycles, engine or aircraft model number, and engine serial number or registration number of the airplane from which the part was removed.
- 6.8.5 Logbooks must be provided for complete aircraft/airframes, engines, APUs and landing gear which should include its birth document. (i.e., New FAA Form 8130-3, PWA transfer ticket, GE shipping ticket, Major Rotating Part form, GE Historical Data Report, manufacturer industry item list or engine configuration listing.)

6.9 Additional Certification Requirements

- 6.9.1 Any handwritten additions, alterations, changes, or revisions made to a preprinted document other than in an intended entry field should include one of the following: initials, name, signature, or stamp of the person making the modification, and date of the modification. Any change to documentation shall be made per industry best practices and should follow the format of a single line striking out incorrect information. Adjacent to the strikeout place the correct information, a date indicating the date of the change and one of the following: initials, name, signature, or stamp indicating the person making the change. Any electronically modified changes to a record (i.e., a PDF edit) must be digitally signed identifying the authorized individual's name, and date.
- 6.9.2 Industrial application items are acceptable for return to service with a Certificate of Conformance, Certificate of Calibration, or a Certificate of Inspection in lieu of an authorized release certificate.
- 6.9.3 The CofC must state that the item(s) meet conformity specifications. An example of this statement is: "The items certified on this document have been manufactured, tested, and inspected in accordance with the requirements of the applicable specifications/drawings and the results meet the requirements of such tests and inspections." (Equivalent wording is acceptable)

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- 6.9.4 All elements which are listed below are the minimum mandatory elements to be referenced on the CofC:
 - a) Supplier's name and address
 - b) Buyer's name and address
 - In the case of the Transfer of Ownership documentation for AAR Defense Systems and Logistics (DS&L) orders, a reference only to AAR Wood Dale and the associated Purchase Order number is acceptable on the documentation to meet the Transfer of Ownership requirement.
 - c) Purchase Order or Repair Order number
 - d) Quantity (quantities to be separated by traceability number)
 - e) Date
 - f) Drawing number and revision (if applicable)
 - g) Signature of authorized Quality representative (An inspection stamp or electronic signature is acceptable providing the supplier has documented procedures for this process.)
 - For DS&L the title of the individual signing the CofC is required to be listed on the CofC per 48 CFR 52.246-15.
 - h) Serial numbers (if applicable) NOTE: An attached list of S/N's is also acceptable.
 - Traceability numbers as identified on component/packaging (Lot, Work Order, Batch, Date Code, etc.)
 - j) Statement of conformance to applicable flammability requirements when appropriate.
 - k) Statement of re-work to the approved engineering drawing (if applicable)
 -) Additional elements required if the product is shelf-life limited:
 - Expiration date (N/A for DS&L Orders)
 - Storage conditions
 - m) Part number
 - n) Country of Origin (COO) if known
 - N/A for DS&L orders.
 - Also, acceptable to list the COO on shipping documents and/or the product in lieu of on the C of C. If listed in multiple places, it must match.
- 6.9.5 When applicable, all material provided to AAR must be properly identified in accordance with 29 CFR 1910.1200.
- 6.9.6 A certificate of calibration must accompany any product used to measure/monitor for maintenance purposes. Facilities performing calibration must have a quality management system that meets the requirements of ANSI/NCSL-Z540 or ISO 10012-1.
- 6.9.7 All commercial aerospace products must be legibly identified in accordance with 14 CFR part 45.
- 6.9.8 When supplying kits or parts containing multiple separate pieces, the supplier must provide a kit contents or Bill of Materials with items and quantities identified.
- 6.10 Additional Certification Requirements Defense Systems & Logistics
 - 6.10.1 Supplier shall provide identification of products that are controlled for Shelf Life. Items will have evidence of a Cure Date, or Manufacture date, or Assembly Date, or any combination indicated on the physical part, or identification plate, band, label, or Packing Slip / Certificate of Conformance. Expiration date may be included. Supplier shall forward any special storage/handling instructions.

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- 6.10.2 Supplier must identify any part manufacturer lot, batch, etc. numbers on the CofC. If multiple manufacturer lot, batch, etc. numbers exist, manufacturer lot, batch, etc. numbers with quantities must be listed separately on the CofC. Supplier must package parts to prevent mixing of lots.
- 6.10.3 Customer Part Number when applicable, and/or called out in PO external narratives.
- 6.10.4 All military aerospace products must be legibly identified in accordance with MIL-STD-130, if applicable.
- 6.10.5 Product Quality criteria confirmation must come from the Suppliers Quality or Engineering departments.
- 6.11 AAR DS&L purchased items returned for evaluation and investigation due to a reported nonconformance.
 - 6.11.1 For PQDR exhibits or items returned to the vendor or vendor's sub-tier supplier, for non-conformance evaluation and investigation:
 - 6.11.2 A Workshop, Strip or Findings Report is required for the reported nonconformance.
 - a) The Workshop, Strip or Findings Report will contain a Summary of the evaluation and inspection.
 - 6.11.3 If the evaluation and inspection confirm a no defect found determination, certification or test data confirming the part meets drawings specifications is required.
 - 6.11.4 If the evaluation and inspection confirm a no fault found determination, certification or test data confirming the part meets drawings specifications is required.
 - 6.11.5 If the evaluation and inspection confirm the reported nonconformance, a Failure Analysis Reports shall be required in addition to the Workshop, Strip or Findings Report.
 - a) A Failure Analysis Report must contain the following information:
 - Description of failure/event
 - Summary of analysis/activities to determine the root cause
 - Corrective action taken/to be taken to eliminate the risk of recurrence
 - 6.11.6 A Record of Measurement (ROM) or Final Measurement document must be provided when available.
 - 6.11.7 Replacement material must be approved by the USG prior to replacement items being provided to AAR.

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7.0 Repair Vendor Requirements:

- 7.1 All material rebuilt, repaired, tested, modified, overhauled, and/or inspected for AAR must meet the minimum requirements outlined below unless the repair order accompanying the part states otherwise:
 - 7.1.1 Certification Requirements - All material must be accompanied by an original FAA, EASA, TCCA, UK CAA Authorized Release Certificate (with a dual release) completed I.A.W. the latest revision of FAA Order 8130.21 and/or EASA (EC) No 1702/2003 Appendix I, EASA (EC) No 2042/2003 Appendix II, TCCA CAR 561 Appendix A & B, TCCA CAR 571 Appendix J, CCAR AC-145, etc. or any other regulatory entity as applicable. For military-specific items that are returned to service in accordance with approved design data or maintenance manuals, a CofC detailing the repair is acceptable in lieu of an Authorized Release Certificate (ARC). Companies that have approval from the CAAC (Civil Aviation Authority of China) are required to provide the AAC-038 form in addition to the applicable FAA, EASA, TCCA or UK CAA Authorized Release Certificate. It is preferred that each line item be certificated separately in order to maintain full traceability. All work must be performed I.A.W. the latest manufacturer's maintenance manual per FAR 145 part 43. Each Authorized Release Certificate must reference the AAR repair order number, the manual name and/or manual number, revision number, revision date, repairs, inspections, modifications, IEN, DER, EA, DR, DICA, CDR repairs, service bulletins, and AD Notes. All relevant airworthiness directives and mandatory service bulletins are to be complied with unless previously complied with (must be noted on the ARC). Shelf-life expiration or inspection due date must be noted on the Authorized Release Certificate, shop report or CofC.
 - 7.1.2 Inspected, Tested, Overhauled, Repaired, Modified, Rebuilt and No Fault Found articles/parts must be provided with a workshop/strip report when applicable or when requested.
 - 7.1.3 The following items must appear on the workshop/strip report if applicable:
 - a) Inspection finding(s)
 - b) Summary of work performed
 - c) Detailed listing of replaced components
 - d) Tests performed
 - e) Alterations/modifications to part number or serial number
 - f) Approved documentation used (including maintenance manuals, service bulletins, approved drawings, etc.)
 - 7.1.4 Failure Analysis Reports may be requested in addition to the workshop/strip report.
 - 7.1.5 In the event of requiring a Failure Analysis Report, the following must appear on the document:
 - a) Description of failure/event
 - b) Summary of analysis/activities to determine the root cause
 - c) Corrective action taken/to be taken to eliminate the risk of recurrence
 - 7.1.6 If the above details are provided on the Return to Service Authorized Release Certificate, a workshop/strip report is not required.
 - 7.1.7 A Record of Measurement (ROM) or Final Measurement document must be provided when available.

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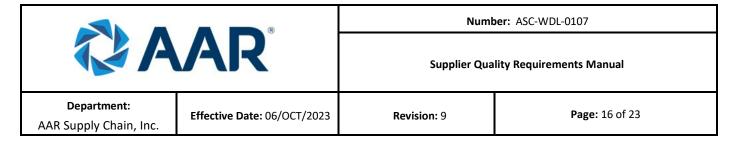
- 7.1.8 AAR requires a notation referencing any repair work that was sub-contracted, on the Authorized Release Certificate, and a copy of the paperwork from the sub-contractor certifying the work that was performed. AAR must pre-approve a situation in which any work will be sub-contracted. Any material that has been repaired by a vendor not approved by AAR will be rejected.
- 7.1.9 Utilization of FAA-PMA parts in the repair or overhaul of an article requires written consent from AAR.
- 7.1.10 Scrap and BER Material Parts that have been determined to be BER or scrap must be returned to AAR. Scrap material that has been authorized by AAR to be scrapped locally must be disposed of I.A.W. FAA Advisory Circular 21-43 latest revision, and AAR Form ASC-WDL-0069 must be properly executed and authorized by AAR. Repair Stations may provide their own authorized scrap form in lieu of AAR Form ASC-WDL-0069, if written pre-approval is obtained from AAR.
- 7.1.11 Quotes All quotes sent to AAR must be legible, and state the following information:
 - a) Name of person providing the quote/contact phone number
 - b) Condition
 - c) Part Number
 - d) Serial Number, if applicable
 - e) Quantity
 - f) Cost of Repair
 - g) Service Bulletins and Airworthiness Directives being complied with or incorporated, if applicable
 - h) Summary of work to perform
 - i) Scheduled Ship Date
 - j) If Return As-Is (RAI) or Clean & Inspect (C&I) fees apply upon AAR denying a repair quote, this charge MUST be indicated on the quote.
- 7.1.12 Part Identification All material must be legibly identified using Industry approved techniques and practices.
- 7.1.13 If returning parts to AAR in a sealed package that is not intended to be opened prior to installation, the unit packaging must contain a label listing the following: Part Number, Serial Number, Repair Station Certificate Number, Quantity, and a Work Order or AAR's RO number.
- 7.1.14 Serialized Parts If the serial number on the Repair Order does not match the serial number on the part, AAR must be notified and provided with documentation stating the discrepancy.
- 7.1.15 Non-Serialized Material All non-serialized material must be marked referencing the work order number, batch number, or repair order number listed on the Authorized Release Certificate, this number must be scribed, ink stamped, etc. directly onto the part. AAR requires this "batching" to maintain full traceability of the material back to the repair station and/or source.
- 7.1.16 Serialized Turbine Blades, Vanes, and Shrouds All serialized turbine blades, vanes, and shrouds should be certified using the least number of Authorized Release Certificates. EXAMPLE: A repair order has 60 turbine blades, with individual serial numbers, and all the blades have the same repairs. One Authorized Release Certificate should be provided for the entire quantity with the serial numbers referenced either in block 10, 12, or in an attachment.

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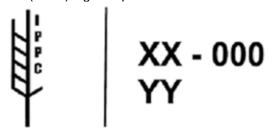
7.1.17 Discrepancies - Verification of <u>part numbers</u> and <u>serial numbers</u> against AAR Repair Orders is required. Parts that are received by the repair vendor absent a P/N must be validated against the relevant technical data to ensure they are the P/N listed on AAR's RO. Any discrepancies related to parts received from AAR vs. what is listed on AAR's paperwork MUST be communicated to AAR. This requirement also applies if AAR's paperwork lists S/N(s) as "NSI".

8.0 Shipping and Packaging Requirements:

- All commercial aerospace products must be packaged and shipped to AAR per the instructions stated in the contract requirements / repair order. Product must be shipped by method, carrier and all other instructions indicated as well as to the location specified. Failure to do so may result in AAR filing a claim for re-imbursement of charges to correct the shipment and/or overpayments that may be the result of not following these instructions. When no packaging requirements are specified, product shall be shipped using the ATA Specification 300.
- 8.2 All military aerospace products must be packaged and shipped to AAR or the designated destination per the contract requirements flowed down on the Purchase Order to the supplier. If no packaging/shipping requirements are specified, all items must be given adequate protection preventing any damage to the items while in transit.
 - 8.2.1 When commercial packaging is specified for military aerospace products, the packaging must meet the requirements of ASTM-D3951.
 - 8.2.2 ESD sensitive items must be properly identified and packaged per ANSI/ESD S20.20.
- 8.3 US customs requires all import shipments to package in compliance with the United States Department of Agriculture (USDA) Animal and Plant Health Inspection Services (APHIS) import regulation for Wood Packaging Material (WPM). The rule requires WPM, such as pallets, crates, boxes, and dunnage used to support or brace cargo, to be treated as marked.
- 8.4 Hazardous material must be packaged and presented for shipment in accordance with FAR title 49, ICAO Annex 18 and IATA Dangerous Goods Requirements. Under these circumstances, personnel will be responsible for compliance with all local, state, federal and international regulations. In the event of a drop shipment, the supplier must notify AAR (the shipper of record).
- 8.5 In cases of noncompliance, the WPM will be subject to immediate export along with the accompanying cargo.
- 8.6 To comply with the regulations and avoid unnecessary delays to AAR, overseas vendors, compliance with these regulations is required. AAR will not be held responsible for additional freight costs and delays in receipt of import shipments due to noncompliance with the USDA regulations. Do not risk the exportation of your cargo because of the noncompliant wood packaging materials.
- 8.7 The approved treatments for wood packaging material are:
 - 8.7.1 Heat treatment to the minimum wood core temperature of 56°C for a minimum of 30 minutes or
 - 8.7.2 Fumigation with methyl bromide.



8.8 To certify treatment, the WPM must be marked with the following International Plant Protection Convention (IPPC) logo. Paper certificates of treatment will no longer be accepted.



XX represents the ISO country code.

000 represents the unique number assigned by the national plant protection organization.

YY represents either HT for heat treatment or MB for methyl bromide fumigation.

8.9 <u>NOTE:</u> Any deviations from this standard require prior written approval of AAR's Traffic Department before shipment.

9.0 Calibration Service Providers:

- 9.1 Calibration supplier's Quality Management System shall be compliant to ANSI/NCSL Z540-1 and ISO/IEC 17025.
- 9.2 In addition, the following requirements shall be met by the Calibration Service Provider:
 - 9.2.1 Calibration activities must be performed under controlled and suitable environmental conditions and by qualified personnel.
 - 9.2.2 Utilize instruments and/or masters that are certified and are traceable to the National Institute of Standards and Technology (NIST) or other nationally (or internationally) recognized standards.
 - 9.2.3 Utilize commercially accepted procedures and tolerances.
 - 9.2.4 Provide copies of certificates of calibration attesting to the accuracy of all instruments.
 - 9.2.5 Affix a sticker providing the date of calibration and the calibration due date. The sticker shall provide evidence of the calibration status.
 - 9.2.6 Notify and report to AAR all "as-received and "as-delivered" values for attributes inspected during calibration.
 - 9.2.7 Provide a basis of comparison between the observed values and expected values (either the actual observed and expected values or a statement of compliance or non-compliance, i.e., "pass" or "fail.")
 - 9.2.8 Affix tamper-proof seals, as appropriate.

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10.0 Definitions:

0.0 Definitions:	
Accessory	A part, subassembly, assembly, or component designed for use in conjunction with or to supplement another item.
AD (Airworthiness Directive)	Issued by the relevant civil aviation regulatory authority to identify those products which have been found to have or are likely to have an unsafe condition and the relevant civil aviation regulatory has prescribed actions to mitigate these conditions or mandated the operating conditions and/or limitations, if any, under which those products or articles may continue to be operated.
Airworthiness	The condition of a product or article that meets its type design in that the item was produced, maintained, and operated in a safe manner to accomplish its intended purpose.
Appliance	Any instrument, mechanism, equipment, part, apparatus, appurtenance, or accessory, including communications equipment, that is used or intended to be used in operating or controlling an aircraft in flight, is installed in, or attached to the aircraft, and is not part of an airframe, engine, or propeller.
Approved Data	Data which has been approved by a Regulatory Authority and/or a designee as applicable. This may include design, maintenance and quality specifications, and manufacturer's service bulletins.
As Is	Any airframe, aircraft engine, propeller, appliance, component part or material, the condition of which cannot certainly and accurately be classified and therefore its status is unknown.
Assembly	An assembly may be an end item or a component of a higher-level assembly. Several parts, subassemblies, or any combination thereof joined together to perform a specific function, and which can be disassembled without destruction of designed use.
ATA 106	See Material Certification Form
Back to Birth Documentation that clearly demonstrates every engine or aircraft, installat removal for a part all the way back to the time that it was manufactured (the part). This must include a "birth" document.	
CAA Form 1	The United Kingdom Civil Aviation Authority Form 1 identifying an aircraft part or parts coming into the U.S. from the United Kingdom which holds a bilateral agreement with the United States for exchange of such parts. May also be used by U.S. certificated foreign repair stations as a maintenance release. The document alone does not automatically constitute authority to install the part, component, or assembly.
Certificate of Conformance	A document which certifies conformance to a manufacturer's process, design, specification, and materials and may include test reports or supporting data.
Commercial Parts	Parts that have been determined to meet the requirement of the type design by the FAA or its designee. These parts are not necessarily designed or produced solely for application in commercial aviation. However, they are manufactured to a specification or catalog description and marked under this identification scheme of the manufacturer.
Component	Any self-contained part, combination of parts, subassemblies, or units, which perform a distinctive function necessary to the operation of a system.
Conformity to FAA- Approved Design Data	An assessment of whether the material, part or product is consistent with the FAA-Approved design data.

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	As defined in 48 CFR 252.251-7010:
	(a)Definitions.
	Aviation critical safety item means a part, an assembly, installation equipment, launch equipment, recovery equipment, or support equipment for an aircraft or aviation weapon system if the part, assembly, or equipment contains a characteristic any failure, malfunction, or absence of which could cause -
	(i) A catastrophic or critical failure resulting in the loss of, or serious damage to, the aircraft or weapon system;
	(ii) An unacceptable risk of personal injury or loss of life; or
	(iii) An uncommanded engine shutdown that jeopardizes safety.
	Design control activity.
	(i) With respect to an aviation critical safety item, means the systems command of a military department that is specifically responsible for ensuring the airworthiness of an aviation system or equipment, in which an aviation critical safety item is to be used; and
military department that is specifically responsible for ensu	(ii) With respect to a ship critical safety item, means the systems command of a military department that is specifically responsible for ensuring the seaworthiness of a ship or ship equipment, in which a ship critical safety item is to be used.
	Ship critical safety item means any ship part, assembly, or support equipment containing a characteristic, the failure, malfunction, or absence of which could cause -
	(i) A catastrophic or critical failure resulting in loss of, or serious damage to, the ship; or
	(ii) An unacceptable risk of personal injury or loss of life.
	(b) Identification of critical safety items. One or more of the items being procured under this contract is an aviation or ship critical safety item. The following items have been designated aviation critical safety items or ship critical safety items by the designated design control activity:
	(Insert additional lines as necessary)
	(c) <i>Heightened quality assurance surveillance.</i> Items designated in paragraph (b) of this clause are subject to heightened, risk-based surveillance by the designated quality assurance representative.
DER	Designated Engineering Representative (FAA)
DICA	Deviation to Instructions for Continued Airworthiness
Drop Shipment	When AAR's supplier ships directly to AAR's customer or vendor.
EASA	European Aviation Safety Agency
EASA Form 1	The European Aviation Safety Agency Form 1 identifying an aircraft part or parts coming into the U.S. from a foreign country that holds a bilateral agreement with the United States for exchange of such parts. May also be used by U.S. certificated foreign repair stations as a maintenance release. The document alone does not automatically constitute authority to install the part, component, or assembly.

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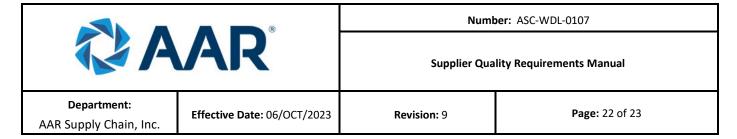
Expendable Parts	A part for which no authorized repair procedure exists or for which the cost of repair would not be economical.
FAA-Approved Design Data	All drawings and specifications necessary to show the configuration of the part and all information on dimensions, tolerances, material, processes, and procedures necessary to define all characteristics of an airworthy product and every part therein.
FAA Form 8130-3	Authorized Release Certificate that may be used by a Production Approval Holder (PAH) to identify a part or group of parts for export approval for identification or for conformity determinations. The form may be used as an approval for return to service by a FAA approved repair station, or an air carrier operating under FAR 121, FAR 127, or FAR 135 with a continuous airworthiness maintenance program; or a Designated Airworthiness Representative to perform certification maintenance functions.
FAA-PMA	Parts Manufacturer Approval. FAA/PMA is issued under Subpart K of 14 CFR Part 21.
FAA Regulated Manufacturer	One which manufactures under FAA certification and has a FAA approved Quality Control System. Certifications are issued under 14 CFR Part 21.
FAR 121/125/129/135/137 Operator / Air Carriers	Operators/Air Carriers certificated under Part 121, 125, 129, 135 or 137 of the US Federal Aviation Regulations (FARs).
FAR 145 Repair Station	A repair station certificated under Part 145 of the Federal Aviation Regulations.
IEN	Internal Engineering Notice – Pratt & Whitney
Incident	Abnormal Operational Circumstance
Industrial Part	These parts may serve several applications such as land-based turbines, boiler and flare stacks, ground power use, etc. (Not for installation on an aircraft).
Inspected	An aircraft, aircraft engine, propeller, appliance, or component part (new or used) which has been examined by means of visual or test procedures to establish conformity with acceptable data.
Life Limited Parts	Parts that have established replacement criteria, inspection intervals, or related procedures specified in the Airworthiness Limitations section of the instructions for Continued Airworthiness under FAR 21.50, 23.1529, 27.1529, 31.82, 33.4, and 35.4 (Ref. 14 CFR Part 21) or under a TSOA. This definition includes rotorcraft parts and materials identified therein which are non-redundant and the failure of which would result in a condition inhibiting or precluding an auto-rotational landing.
Manufacturer	An organization that makes components, units, or piece parts for use in the construction or maintenance of aircraft and power plants.
Manufacturer's Certification	A document which certifies conformance to manufacturer's process, design, specification, and materials, and may include test reports or supporting data.
Material Certification Form	A document that provides a link between companies (buyer & seller). These certifications should state the previous engine or aircraft S/N, Total Time/Total Cycles, and last Regulated Source and/or other relevant information to establish condition and traceability as applicable.
Military Standards	Product standards and specifications for products manufactured for the U.S. military or defense contractors, units, suppliers, etc.
Modified	An aircraft, aircraft engine, propeller, appliance, or component part which has been altered in conformity with approved data.
New	A product, assembly, accessory, component, part, or material produced in conformity with approved data that is accompanied by a manufacturer's material certification at the time of sale and has no operating time or cycles.

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New-Unused (Surplus)	A product, assembly, accessory, component, part, or material produced in conformity with approved data which has been released as surplus by the military, manufacturer, owner-operator, repair facility, etc.; has no operating time or cycles and may be accompanied by the manufacturer's material certification at the time of sale, and which is being sold by a person other than the original equipment manufacturer.
Non-Incident	Material that was not involved in an incident or accident.
Overhauled	Describes a used aircraft, aircraft engine, propeller, appliance, or component part which has been overhauled using methods, techniques, and practices acceptable to the FAA and has been disassembled, cleaned, inspected, repaired as necessary, and reassembled. In addition, it has been tested in accordance with approved standards and technical data acceptable to the FAA.
PC (Production Certificate)	A certificate issued by the FAA authorizing the production of a type certificated or supplemental type certificated product. (Ref. 14 CFR Part 21, Subpart G)
PMA (Parts Manufacturer Approval)	An approval issued by the FAA to produce a modification or replacement part for sale for installation on a Type Certificated product. (Ref. 14 CFR Part 21, Subpart K.) All parts produced under a PMA shall be marked in accordance with FAR 45.15. Manufacturers outside the U.S. are not generally issued PMAs, per FAR 21.303(G).)
Product	A product is an aircraft, aircraft engine, or propeller.
PAH (Production Approval Holder)	The holder of a Type Certificate (TC), Production Certificate (PC), Parts Manufacturer Approval (PMA), or Technical Standard Order Authorization (TSOA) with respect to a particular product or part thereof.
Rebuilt	An aircraft, aircraft engine, propeller, appliance, or component part which has been disassembled, cleaned, inspected, repaired as necessary, reassembled, and tested to the same tolerances and limits as a new item, in conformity with approved data, using either new or used parts that conform to new part tolerances and limits or to approved oversized or undersized dimensions. This can only be accomplished by an authorized manufacturer (14 CFR Part 21).
Recoverable	Items which may be repaired to a serviceable condition one or more times before scrapping. Repair is by rework, maintenance, preventative maintenance, rebuilding or alteration, such as welding, refinishing, recharging, etc.
Regulated Supplier	A supplier who is a PAH, 14 CFR Part 21 manufacturer, FAR 121, 125, 129, 135, 137 Operator/Air Carrier, Foreign Operator/Air Carrier (not FAR 129) or Certified Repair Station (FAA, EASA, TCCA); as defined by AAR Aircraft Turbine Center and Allen Asset Management & Distribution. In addition to the above, AAR Defense Systems & Logistics defines a regulated supplier to include OEM's
Removal Tag	Identification Tag, or other document from the entity who disassembled (or removed) the part. The document shall clearly indicate the source of the part, i.e., aircraft registry number or MSN or ESN, appliance or accessory part number and serial number and includes: - Name of facility or organization removing or performing disassembly. - Part number removed. - Serial number removed. - Description of the item. - Quantity Removed. - Date removed. - Signature or stamp of the agency or individual
Repaired An airframe, aircraft engine, propeller, assembly, appliance, accessory, compone part which has been restored to a serviceable condition in conformity with data acceptable to the FAA.	

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Rotable Parts	An item that can be economically restored to a serviceable condition and, in the normal course of operations, can be repeatedly rehabilitated to a serviceable condition over a period approximating the life of the flight equipment to which it is related. Rotable Parts must always utilize serialization per 14 CFR Part 21.
Shelf Life Limited	Any item that has a finite amount life before replacement or recertification is required or the item is no longer fit for its intended use.
Serviceable	A general term for Airworthy products or articles.
Standard Part	A part manufactured in conformance with a specification established, published, and maintained by a consensus standards organization, a government agency, or a holder of a Type Certificate (TC). The specification includes design, manufacturing, test and acceptance criteria, and identification requirements.
TSO (Technical Standard Order)	An order issued by the FAA and is a minimum performance standard for specified articles used on civil aircraft. (Ref. 14 CFR Part 21, Subpart O)
TSOA (Technical Standard Order) Authorization	An FAA design and production approval issued to the manufacturer of an article which has been found to meet a specific TSO.



11.0 Revision History:

Revision Date:	Revision:	Description / Reason for Revision:	Approved By:
01/APR/2019	Original	Original release.	B. Bilski
17/FEB/2020	1	Complete rewrite and reformatting of document.	B. Bilski
10/MAR/2020	2	2.6.7 Added "Purchase Order" to documentation matrix Section 3 Added "Purchase Order" to title 4.0 d) Updated note to reference 5.9 4.0 e) Updated note to reference 5.9 5.6 Removed "or Airline Specific Repair/inspection" 6.1 Added "Purchase Order" to documenting matrix 6.2 Added "maintained in accordance with" 6.2.1 Removed section 6.6 Added "Purchase Order" to documentation matrix 6.9.4 n) Removed section 6.9.8 Removed section 6.10.4 Added section 6.10.5 Added section 7.1.2 Added "when applicable or when requested" 7.1.3 Removed "document" added "workshop/strip report	B. Bilski
11/AUG/2020	3	Include a callout in section 6.9.4 to allow an inspection stamp in place of signature of the CofC.	B. Bilski
24/AUG/2020	4	Removal of Additional Certification Requirements Defense System and Logistics current section 6.10.1 on page 12 of AAR ASC-WDL-0107 which called out for test data documentation for Critical Safety Items. Updated section 6.10.2 to 6.10.1 and re-numbered the remaining sections of 6.10.	B. Bilski
17/MAR/2021	5	Commerical Changes: Clarify content post-Brexit (UK CAA) and add requirement for FOD prevention. DS&L Changes: Add specific requirements for Defense items returned to an AAR vendor for evaluation and investigation due to a reported non-conformance.	B. Bilski
23/AUG/2021	6	6.9.4 n) Added Country of Origin to CofC requirements.6.9.8 Added verbiage concerning assemblies containing multiple pieces.8.2.2 Remove reference to MIL-STD-1686.	B. Bilski
07/SEP/2022	7	6.9.4 b) Added the following: "In the case of Transfer of Ownership documentation for AAR Defense Systems and Logistics (DS&L) orders, a reference only to AAR Wood Dale and the associated Purchase Order number is acceptable on the documentation to meet the Transfer of Ownership requirement."	B. Bilski



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Revision Date:	Revision:	Description / Reason for Revision:	Approved By:
22/SEP/2022	8	Remove section 5.1.1. Update to section 6.9.1: Any handwritten additions, alterations, changes, or revisions made to a preprinted document other than in an intended entry field should include one of the following: initials, name, signature, stamp of the person making the modification, and date of the modification. Any change to documentation shall be made per industry best practices and should follow the format of a single line striking out incorrect information. Adjacent to the strikeout place the correct information, a date indicating the date of the change and one of the initials, name, signature, stamp of the person making the change. Any electronically modified changes to a record (i,e., a PDF edit) must be digitally signed identifying the authorized individuals name, and date. 6.9.4 n) Identified that Country of Origin is not a CofC requirement for DS&L orders. 6.9.11 Removed title "Product Quality Deficiency Report (PQDR)". Replaced with "AAR DS&L Purchased items returned for Evaluation and Investigation due to a reported nonconformance."	B. Bilski
06/OCT/2023	9	Update section 6.9.4.l): Remove requirement for shelf-life expiration date on Certificate of Conformance for DS&L. Update Section 6.10.1: Remove shelf-life expiration requirements. Remove section 6.11.8.	B. Bilski