

# Appendix QX

## Supplier Quality Requirements

The latest issue to this document is the version that is available on the Lockheed Martin Aero website: <http://www.lockheedmartin.com/us/aeronautics/materialmanagement.html>

\*Revised    \*\*Added    \*\*\*Removed

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The terms “Item(s)”, “PO”, “Seller”, and “Buyer” as used herein, have the same meaning as the terms “Work”, “Contract”, “SELLER”, and “LOCKHEED MARTIN”, respectively.

Questions regarding this Appendix QX or the applicability of this Appendix QX shall be addressed to Buyer’s Supplier Quality Engineer located at:  
<http://www.lockheedmartin.com/us/aeronautics/materialmanagement.html> > Quality Requirements > Information.

Buyer-unique documents (e.g., Q2A, Q30, TMS-MC-015, etc.) referenced in this PO are available from Buyer or Buyer’s website at: <http://www.lockheedmartin.com/us/aeronautics/materialmanagement.html>. Copies of Aerospace Standards (AS/EN documents) from the Society of Automotive Engineers may be obtained at: [www.sae.org](http://www.sae.org).

- \* **1.0 Quality Requirements:** Seller shall meet the requirements of the latest revision of Appendix QX and all applicable requirements therein in effect as of the date of this PO. Seller shall:
  - a. ensure all applicable QX requirements herein and other quality requirements in this PO are imposed upon Sellers and manufacturing facilities at all tiers working on Buyer’s product; and

- b. have and maintain Internet access for obtaining requirements of this PO; and
- c. ensure its quality system is third party registered by an International Aerospace Quality Group / Americas Aerospace Quality group approved registrar to the appropriate certification according to Seller's activities/commodities as defined in Table 1; and
- d. Comply with the additional quality requirements contained in Table 2, as applicable.

- \* **1.1 Quality System Changes & Relocation:** Seller shall notify Buyer's Supplier Quality Engineer, in writing, within 10 days of any of the following:
- a. change in its quality system status; or
  - b. loss of third party registrar's certification status; or
  - c. change in Seller's quality organization, process or procedures that affects conformity of any Item; or
  - d. adverse action taken by Seller's customer, the Government, the Federal Aviation Agency ("FAA"), or the Civil Aviation Agency ("CAA") to include any of the following:
    - i. Issuance of a Level II Corrective Action Request ("CAR") associated with Buyer Items
    - ii. Issuance of any Level III CAR
    - iii. Suspension of Government Source Inspection ("GSI")

- \* Seller shall notify Supplier Quality Engineer and Buyer, in writing, at least 90 days in advance of any sale, relocation, or transfer of Seller's manufacturing operations. Seller shall include the following, as a minimum, in the written notification:
- purpose of the relocation,
  - address of the new location(s),
  - assessment of actual or potential impact to current POs,
  - risk mitigation plan to ensure compliance to existing requirements,
  - plan defining the identification, storage, protection, retrieval and retention of records,
  - master schedule and timeline of relocation activities, and
  - relocation Coordinator/Point of Contact

- 1.2 Language:** Upon request by Buyer, Seller shall provide all Seller records, reports, specifications, drawings, inspection and test results and other documentation in English.

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- \* **1.3 Counterfeit Parts / Material Prevention:** Seller shall establish and maintain a Counterfeit Parts / Material Prevention and Control Plan using AS-5553 (Ref. elements of Section 4) and/or AS6174 (Ref. elements of Section 3) to ensure that Counterfeit Work is not delivered to Buyer. The purpose of Seller's Plan shall be to develop a robust process to prevent the delivery of counterfeit commodities and control commodities identified as counterfeit

- a) For purposes of this clause, Work consists of those commodities delivered under this Contract that are the lowest level of separately identifiable items (e.g., articles, components, standard hardware, goods, raw materials and assemblies). "Counterfeit Work" means Work that is, or contains, items misrepresented as having been designed and/or produced under an approved system or other acceptable method. The term also includes approved Work that has reached a design life limit or has been damaged beyond possible repair, but is altered and misrepresented as acceptable.
- b) Seller shall only purchase products to be delivered or incorporated as Work to Buyer directly from the Original Component Manufacturer (OCM)/Original Equipment Manufacturer (OEM), OCM/OEM authorized distributor chain, Aftermarket Manufacturer, or Authorized Reseller. These products shall have verification that Work is traceable to OCM/OEM; OCM/OEM

authorized distributor chain, Aftermarket Manufacturer, or Authorized Reseller that identifies the name and location of all the supply chain intermediaries from the part manufacturer to the direct source of the product for the Seller. Work can only be acquired from independent distributors or brokers in cases of diminishing material supply (DMS) or obsolescence and shall be subjected to a screening process appropriate to the commodity in accordance with the Counterfeit Parts / Material Prevention and Control Plan.

If traceability is not obtainable, written notice shall be provided to the Supplier Quality Engineer and Buyer prior to delivery with records of evidentiary tests and inspections performed and conformance of the product to specified acceptance criteria that ensures verification activities taken to assure authenticity. Written notice is not required for raw material and standard hardware purchased from independent distributors or brokers, but products must be able to provide commodity level traceability to the Original Manufacturer.

- c) Seller shall notify Supplier Quality Engineer and Buyer in accordance with 2.2 with the pertinent facts if Seller becomes aware or suspects that it has furnished Counterfeit Work. Seller shall provide to Supplier Quality Engineer and Buyer, upon request, the supply chain traceability to an Original Manufacturer or authorized distributor chain that identifies the name and location of all the supply chain intermediaries from the part manufacturer to the direct source of the product for the Seller.
- d) Seller shall include this clause or equivalent provisions in lower tier subcontracts for the delivery of items that will be included in or furnished as Work to Buyer.

Sellers eligible for utilization of the Government-Industry Data Exchange Program ("GIDEP") shall utilize the GIDEP process to alert the industry of encountered counterfeit parts.

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\* **1.4 Certificate of Conformance:** Seller shall:

- a. prepare a certificate of conformance ("CoC") to assert the Items contained with the shipment are in compliance with all applicable requirements of this PO; and
- b. annotate in the delivery package any exceptions, e.g. variances, Supplier Quality Assurance Report ("SQAR"), Advanced Engineering Authorization ("AEA"), etc;
- c. ensure the CoC is signed by a Seller's quality representative, and
- d. include a copy of the CoC inside the shipping container and with shipping documents.

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**Provision for Alternate Acceptance DD250 Process:**

When authorized in writing by Buyer's customer, Seller shall ship with a Certificate of Conformance any supplies for which the contract would otherwise require government inspection at source. The CoC shall be in the format outlined in FAR 52.246-15

\* **1.5 Records:** Seller shall:

- a. maintain complete records of the following:
  - all manufacturing, inspection, test, CoC, and shipping; and
  - process capability or tooling controlled per TMS-MC-015, if applicable; and
  - all nonconforming material, dispositions, assignable causes, corrective and preventive actions, and effectiveness of corrective actions; and
- b. make records available for at least three (3) years after completion of this PO or for longer periods if specified elsewhere in this PO; and
- c. maintain records of all QCS-001 "Work" performed and/or procured in accordance with 2.5 for at least seven (7) years after completion of this PO or for longer periods if specified elsewhere in this PO; and

- d. upon Buyer's request, forward records to Buyer at no additional cost, price, or fee to Buyer.

**1.6 Government/Industry Data Exchange Program ("GIDEP") Membership** – If Seller is eligible for GIDEP membership, Seller is required to be a member of GIDEP.

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\* **1.7 Buyer-Certified Materials:** Seller shall establish and maintain controls to prevent the use of non-certified materials when Buyer-certified materials (e.g. Engineering Materials and Approved Products [EMAPs]) are required.

\* **1.8 Calibration:** Seller shall maintain a documented calibration system for the calibration and maintenance of tools, jigs, inspection and test equipment. Seller shall have and maintain a calibration system compliant to ISO 17025, ISO10012-1, or ANSI Z540.

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\* **1.9 Buyer-Furnished, Seller-Manufactured or Seller-Owned Tooling:**

- A. Seller shall include in its documented quality system written procedures for the control, maintenance, and calibration of special tooling, jigs, inspection and test equipment, and other devices used in manufacturing processes.
- B. Seller shall comply with the requirements of Buyer's tooling manual (TMS-MC-015).

**\* TABLE 1 – Quality System Requirements by Commodity**

Commodity / Product	Quality Management System			
<b>NOTE:</b> Seller shall have a current third party certification to ISO9001 or AS/EN9100 from an ANSI-ASQ National Accreditation Board ( <a href="http://www.anab.org">www.anab.org</a> ) approved registrar.	ISO9001	AS/EN 9100	AS9120	AS9110
	See Note above for third party certification requirements Where multiple X's appear for a commodity, only one of the indicated standards is required.			
LM Aero Build-to-Print Metallic and Non-Metallic Parts, Castings & Forgings (including finished castings and forgings), Sheet Metal, Machined Parts, Structural Assemblies/Details, Honeycomb Core, Composite Parts (Includes Certified Parts Providers- CPP)		X		
Metallic Raw Materials (Bar, Rod , Plate, Sheet, Extrusions, etc.), including Cut-to-Size	X ♦	X	X	
Non-Metallic Raw Materials (Chemicals, Paints, Adhesives, Lubricants, Tapes), Composite Materials	X ♦	X	X	
Electrical Hardware/Components, Standard Hardware, LM Aero Special Hardware, or Miscellaneous Hardware and Bearings, Detail Parts Controlled Under Manufacturer's Part Number, Support Equipment (SE) and Details of SE	X ♦	X	X Distributors Only	
Ground Support Equipment	X	X		
Electrical, Mechanical, Avionics (equipment, assemblies, sub-assemblies, details, harnesses and major components), including jet engines and propellers		X		
Aviation Fuel/Oil	X ♦	X		
Perishable Tooling	X	X	X Distributors Only	
Tooling		X		
Software		X		
Service Providers Definition: A company whose specialty and core business is integration and management of supply chain operations. Services may include, without limitation, kitting, transportation, distribution and warehouse management, inventory management tasks such as tactical inventory forecasting and optimization, supplier management for selected classes of supplies, and global material deployment and distribution.	X	X	X	
Maintenance , Repair , or Overhaul Definition: An Organization that performs Maintenance, overhaul, repair, or modification of an aircraft or an aircraft component/article that is performed after completion of manufacturing and initial airworthiness certification by the applicable Authority; and for Original Equipment Manufacturer (OEM) organizations with maintenance, repair and overhaul operated <u>autonomously</u> or that are substantially different from their manufacturing/production operations. (See 2.6.)		X+		X
Stockist Distributors / Contract Service Agency Definition: (1) "Distributor" is defined as any Seller that is buying Items from other suppliers and selling them to Buyer without adding value to Items. A Distributor cannot act as a Service Center unless the Distributor has a license in place. Repackaging shall not be considered a value-added task for the purpose of this definition. (2) Contract Service Agency is considered to be a Distributor		X #	X	

◆ Beginning July 1, 2013 all suppliers with commodities marked with ◆ shall be certified to AS9100 (or at current certification expiration date)

+ Suppliers performing Alternate Repair Activity on Non OEM product: AS9100 certificates scope of approval description must include M.R.O activity, if AS9110 Certification is not held.

# Suppliers acting as Non-value added distributor with AS9100 certificates must have a scope of approval that includes distribution, if AS9120 certification is not held

**\*\* Table 2 – Additional Quality Requirements by Commodity**

Commodity / Product	Fit Check	Software	FAI	FOD	Tooling Inspection Requirements	Variability Reduction
	Q3R (C-130 & P-3 Only)	Q6R Buyer's quality clause Q6R applies to both deliverable and non-deliverable software	Q2A and AS/EN 9102  Q2B (M.R.O)	Q4R	Q16	Q30 (Measurement Plan) AS9103 (Variability Reduction)  (F-35)
LM Aero Build-to-Print Metallic and Non-Metallic Parts, Finished Castings & Forgings, Sheet Metal, Machined Parts, Structural Assemblies/Details, Honeycomb Core, Composite Parts	X	X	X	X		Q30 and AS9103
Metallic Raw Materials (Bar, Rod, Plate, Sheet, Extrusions, etc.), including Cut-to-Size		X				
Non-Metallic Raw Materials (Chemicals, Paints, Adhesives, Lubricants, Tapes), Composite Materials		X		X		
Raw Castings & Forgings		X	X			
Electrical Hardware/Components, Mil-Spec Standard Hardware, LM Aero Special Hardware, or Miscellaneous Hardware and Bearing, Detail Parts Controlled Under Manufacturer's Part Number, Support Equipment (SE) and Details of SE				X		
Ground Support Equipment		X		X		
Electrical, Mechanical, Avionics (equipment, assemblies, sub-assemblies, details, harnesses and major components), including jet engines and propellers		X	X	X		AS9103
Aviation Fuel/Oil				X		
Perishable Tooling		X			X	
Tooling				X		
Software		X				
Service Providers (See Table 1 for Definition)		X		X		
Maintenance and Overhaul Centers (See Table 1 for Definition) See 2.6.6 for FAI/MPV		X	X	X		
Distributors (See Table 1 for Definition)			X	X		

\* **2.0 Point of Acceptance:** The point of acceptance is indicated on each PO issued.

When this PO requires Buyer Accept at Source, Buyer acceptance can involve periodic surveillance by Buyer of Seller's quality system, manufacturing processes or physical Item, including work at Seller's sub-tiers. Based on Seller's performance, Buyer acceptance activities may result in the requirement for full-time oversight of Seller's and/or Seller's sub-tier suppliers.

The location of performance of Buyer acceptance, prior to shipment, shall be the Seller's facility address referenced on Buyer's PO. If Seller's Item manufacture, acceptance and/or shipment will be at or from a location other than the contracted PO address, Seller shall:

- a. provide Buyer's Supplier Quality Engineer with Seller's written plan at least 30 days prior to manufacturing activities that, as a minimum, contains the following:
  - name and location of Seller's sub-tier and/or manufacturing site,
  - how Seller will be performing acceptance of product from a sub-tier location and/or manufacturing site,
  - upon request, example of Seller's purchase order to validate appropriate flow down of Buyer's requirements,
  - date that manufacturing activity will begin,
  - assessment of actual or potential impact to current POs, and
  - risk mitigation plan to ensure compliance to existing requirements,
- b. obtain Buyer's Supplier Quality Engineer written acknowledgement and concurrence, prior to any manufacturing activity.
- c. reflect Seller's contracted Supplier name and location, regardless of the point of final acceptance or delivery, in Seller's shipping document and C of C

**2.0.1** – Prior to shipment of Items designated "BUYER ACCEPT AT SOURCE", Seller shall:

- a. obtain final acceptance from Buyer's Supplier Quality Engineer, or
- b. request and obtain authorization from Buyer's Supplier Quality Engineer for shipment, or
- c. sign and/or stamp and date Seller's shipping document to indicate acceptance of Item(s) by Seller's quality assurance personnel, when Buyer has delegated end item acceptance to Seller.

**2.0.2** – Prior to shipment of Items designated "BUYER AND GOVT ACCEPT AT SOURCE", Seller shall comply with 2.0.1 and obtain final acceptance from the assigned Government representative

**2.0.3** – When Buyer has not provided Seller with prior written authorization to act on Buyer's behalf, Seller shall notify Buyer's Supplier Quality Engineer normally servicing Seller's facility, not more than five (5) days after receipt of this PO, when PO calls for "BUYER ACCEPT AT SOURCE" or "GOVT & BUYER ACCEPT AT SOURCE". Seller's notification shall include PO number, date of scheduled shipment and any special security clearance required to perform Buyer activities.

**2.0.4** – When Buyer has not provided Seller with prior written authorization and/or electronic notification to act on Buyer's behalf, Seller shall notify Buyer's Supplier Quality Engineer a minimum of two (2) working days prior to Items being ready for shipment, when this PO calls for "BUYER ACCEPT AT SOURCE" or "BUYER AND GOVT ACCEPT AT SOURCE",.

**2.0.5** – Seller shall not claim entitlement to an increase in the PO price, cost, or fee based upon an assertion that "BUYER ACCEPT AT SOURCE" or "GOVT & BUYER ACCEPT AT SOURCE" imposes additional cost(s) or task(s) on Seller.

\* **2.1 Facility Access:**

- A. Regardless of Buyer's or Buyer's Customer Point of Acceptance on this PO or whether Buyer's Customer has issued a delegation for this PO, Seller shall provide or obtain for Buyer, Buyer's customers and regulatory agency personnel, access to any and all facilities where work is being performed or is scheduled to be performed, including those facilities of Seller's subcontractors, in order to perform Item inspections, surveys or system/process

surveillance as part of verification of conformance to the requirements of this PO. Seller's denial of any such access may result in inactivation of Seller's approval. Seller shall include the provisions of this facility access requirement in its POs with its subcontractors, for this PO.

- B. Seller shall provide the following, at no increase in price, cost or fee to Buyer, Buyer's customers or regulatory agencies:
- i. suitable facilities at Seller and Seller's subcontractors' manufacturing locations for Buyer, Buyer's Supplier Quality Engineer, Buyer's customer and regulatory agency representatives to perform Item inspections, surveys or system/process surveillance, and
  - ii. Buyer's Supplier Quality Engineer with high speed internet access (DSL or wireless).

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\* **2.2 Corrective Action, Preventive Action, Request and Reporting:** Seller shall:

- a. ensure effective corrective and preventive action is taken (including repetitive non-conformances dispositioned "Use-As-Is" or "Repair" by Buyer's or Seller's Material Review Board ["MRB"] actions) to prevent, minimize, or eliminate non-conformances; and
- b. evaluate each nonconformance for its potential to exist in previously produced Items and notify Buyer, in writing, within 24 hours of potential or verified non-conformances impacting flight safety on Items in transit or delivered to Buyer; and
- c. notify Buyer in writing within 5 working days of all other potential or verified non-conformances by utilizing the on-line system located at :  
<http://www.lockheedmartin.com/us/aeronautics/materialmanagement.html> under Quality Requirements > Corrective Action to make this notification; and
- d. provide effective corrective and preventive action upon request by Buyer and, when requested by Buyer, provide trend data; and
- e. assess all Buyer-identified non-conformances, whether or not Item(s) was/were returned to Seller, and take appropriate actions ensure causes of non-conformance are corrected;
- f. perform the following actions when Seller has tested any returned Item and Seller cannot verify a Buyer reported non-conformance:
  - i. initiate a SPaR to Buyer for additional verification testing and disposition,
  - ii. process non-verified failure Items according to the SPaR, and
  - iii. not return non-verified failure Items unless authorized by Buyer.

\* **2.3 Control of Nonconforming Product / Material Review Process,**

**2.3.1** – Buyer and Buyer's customers have the right to refuse to accept any and all Seller nonconformances.

**2.3.2** – Seller shall ensure Seller's quality system has capability to report nonconformance(s) on CSI in full compliance with Defense Federal Acquisition Regulation Supplement ("DFARS") 252.246-7003.

- \* **2.3.3** – When Buyer's customer has delegated oversight/surveillance of Buyer's work to a cognizant Government representative at Seller's facility, Seller shall submit all material review dispositions for Buyer-related work to the cognizant Government representative, regardless of ownership of design and regardless of tier level for concurrence.

**2.3.4** – Buyer has the right to limit or eliminate Material Review processing on work defined by this PO.



- \* **2.3.5** – MR for Seller designed or Buyer-designed Items is not applicable to Buyer-Furnished Equipment (BFE).

BFE is equipment or Items provided to Seller from Buyer; therefore not procured or built by Seller. Seller's continued processing, prior to obtaining Buyer's MR disposition, of any nonconforming BFE shall be at Seller's risk.

Seller shall request Buyer MR disposition of BFE in accordance with Buyer instructions located on Buyer's website at: <http://www.lockheedmartin.com/us/aeronautics/materialmanagement.html> > Quality Requirements > Supplier Quality Management System. Seller shall identify equipment or Items as BFE within the request. A User Guide is available from Buyer's website.

- \* **2.3.6** – For Seller-designed Items, Material review dispositions are limited to non-conformances that do not affect a parameter controlled by Buyer drawing or specification, where form, fit or function, interchangeability, Critical Safety Characteristic (CSC) related to Critical Safety Item (CSI) service life or reliability is affected. Seller shall submit requests for recommended disposition of non-conformances, if any, affecting any such parameter(s) to Buyer for Major Variance approval as defined in this PO.

- \* **2.3.7** – For Buyer-designed Items, Seller Material review process is limited to scrapping of Items, eliminating the nonconformance by rework to engineering, or returning to vendor. Seller shall request repair or Use-as-Is disposition from Buyer's MRB. Seller's continued processing shall be limited to subsequent operations that do not hide, alter or limit the ability to inspect, disposition or repair Item unless Seller has received written approval from Buyer.

When Buyer has delegated MR to Seller for Buyer-designed Items, Seller's process shall be limited to the scope provided in the MR delegation.

Seller's request for Buyer MR disposition of Seller or Buyer-designed Items shall be submitted in accordance with Buyer instructions located at:  
<http://www.lockheedmartin.com/us/aeronautics/materialmanagement.html> > Quality Requirements > Supplier Quality Management System.

**2.3.8** – When requested by Buyer, Seller shall provide Buyer's Supplier Quality Engineer with Seller's MRB disposition information related to Buyer's Item(s).

#### **2.4 QCS-001 Requirements for Buyer-Designed Items:**

**2.4.1** - QCS-001 sets forth both the process sources and the processes that require Buyer approval, prior to use for Items delivered to Buyer. A controlled process is an operation performed on an Item where the operation cannot be readily verified subsequent to its conclusion. Controlled processes have verifiable controls inherent to the process, e.g. heat treat, plating, nondestructive testing, etc.

- \* **2.4.2** - Seller and Seller's sub-tiers shall meet all requirements of the latest version of Appendix QJ in effect as of the date of this PO when Seller or Seller's sub-tiers are performing any Buyer-controlled process identified in QCS-001.

**NOTE:** Sellers providing perishable tooling and Tool Service Requirements List ("TSRL") Items are not required to use QCS-001 approved process sources or provide QCS-001 Quarterly Usage Reports.

**2.4.3** – Seller’s utilization of Buyer-approved sources does not relieve Seller from the obligations to ensure subcontracted sources are in full compliance with applicable process specifications and to deliver conforming Items.

- \* **2.5 QCS-001 Requirements for Seller-Designed Items:** Seller has the authority and responsibility to approve and control its special processing sources including in-house processes. Seller is not required to use those sources or specifications listed in QCS-001.

Buyer shall have the right to withdraw Seller’s authority to approve both internal and external special processes and special process sources. If such authority is removed the Buyer may direct Seller at no increase in price, cost or fee to Buyer to use only those sources listed in QCS-001 and also meet all of the requirements of Quality Appendix QJ including the Addendum to QJ. Buyer is not be obligated to add any additional special process source or specification to QCS-001 as a result of a Seller’s authority to approve special process sources being removed.

- \*\* **2.6 Maintenance, Repair, or Overhaul Activities:** (Including Alternate Repair Sourcing)

**Additional Requirements:**

This section is applicable to Sellers performing Maintenance, Repair, or Overhaul Activities on Non-OEM product and/or Original Equipment Manufacturer (OEM) organizations with maintenance, repair and overhaul operated “*autonomously*” from their manufacturing/production operations.

**2.6.1 Quality Management Systems:**

- a) A FAA certified repair station must establish and maintain a quality control system acceptable to Lockheed Martin that ensures the airworthiness of the articles on which it or any of its contractors performs maintenance, preventive maintenance, repairs or alterations. The quality management system process shall cover (military articles) the Quality requirements that meet the intent of AS9110.
- b) QMS Surveillance: Buyer acceptance can involve periodic surveillance by Buyer of Seller’s quality system, manufacturing processes or physical Item, including work at Seller’s sub-tiers. Approval can be suspended based on surveillance results or Seller’s performance.
- c) Processing Nonconforming Material and Corrective Action: Seller shall report in accordance with section 2.2; any defect in any product, part, process, or article produced by Seller that it determines has escaped their quality system.

**2.6.2 Outsourcing of Repair Items:** Sellers receiving Purchase Orders for repair Items shall perform repair at Seller’s facility. Outsourcing of work related to tear down, repair, re-assembly, and functional test of the end item or detailed components is prohibited unless authorized in advance by Buyer.

**2.6.3 QMS-ARR requirements for approved capability sources:** Seller shall only have authority to perform repairs of Items for which it has a capability rating listed in QMS-ARR. QMS-ARR sets forth both the capability sources and the capability approval focus area that requires Buyer approval, prior to use for Items delivered to the customer.

**2.6.4. QCS-001 Controlled Processes and Approved Processors**

**2.6.4.1** For requirement instruction, reference Section 2.4

**2.6.4.2 Sellers Performance of QCS-001 Processes:** When performing QCS-001 Controlled Processing in Seller's facility, Seller shall accomplish QCS-001 processes in accordance with applicable process specifications and the current revision of Appendix QJ. Seller must have approval from the Buyer for any Lockheed Martin special process performed at the Sellers facility.

**2.6.4.3** If Seller performs or directs its sub-tier to perform processes controlled by QCS-001 without Buyer's prior approval, Buyer shall have the right to disapprove Seller's quality system

**2.6.5 Data Requirements:** Technical data shall be licensed or provided by contract. If the design of the article was obtained by a licensing agreement, the applicant must provide evidence of that agreement. Updates must be maintained/updated to latest revision

**2.6.6 Maintenance Process Verification (MPV):** New maintenance processes shall be documented, qualified and approved by the customer and/or authority. A Maintenance Process Verification (MPV) is a complete, independent, and documented physical and functional inspection process to verify that prescribed repair and overhaul methods have produced an acceptable item as specified by engineering drawings and specifications, planning, and other applicable design documents. This is similar to a First Article Inspection that is typically performed on new production parts. The MPV shall be performed and updated as specified for repair to verify the Compliance with Original Equipment Manufacturers (OEM) design documentation, specifications and performance requirements, repair processes, repair workmanship . The process shall be repeated by the seller when changes occur that invalidate the original results. A partial MPV is required for any amended work scope after the original MPV has been conducted.

**2.6.7 Training:** Seller must ensure that personnel performing maintenance, repair, or overhaul services and release of articles are qualified and certified in accordance with Authority and customer contract requirements

**2.6.8 Teardown Report and Maintenance Release:** Seller shall provide Buyer and SQE with the following for each unit repaired/overhauled and tested:

- a. Teardown Report (electronic version)
  1. If the repair/overhaul results in a change in the configuration (i.e., dash number, revision or part number) documentation stating compatibility with the original part must accompany the teardown report.
  2. The teardown report must contain the following:
    - i. Parts number
    - ii. Serial number, if serialized
    - iii. Parts removed and replaced
    - iv. If the part was Repaired or Overhauled
    - v. Test reports, if applicable
    - vi. Technical Order ("T.O.") or repair/overhaul manual used to repair the Item including the revision level of the T.O. or repair/overhaul manual
- b. Maintenance Release - A maintenance release/return to service certification or equivalent is required (e.g., FAA8130 (where applicable), DD1574, maintenance release certificate, etc.)