

QUALITY SPECIFICATION Rev: K Date: 10/8/19

1. Purpose

This document defines requirements for suppliers providing materials, products and services to Electromech Technologies for aerospace, defense and industrial market segments. Supplier acceptance of a purchase order from Electromech Technologies referencing this specification indicates they understand it is the supplier's responsibility to adhere to the requirements described herein.

2. Reference

- 2.1. AS9120 Quality Management Systems
- **2.2.** AS9100 Quality Management Systems
- 2.3. ISO9001 Quality Management Systems
- **2.4.** AS5553 Counterfeit Electrical, Electronic, and Electromechanical (EEE) Parts; Avoidance, Detection, Mitigation, and Disposition
- 2.5. AS9102 First Article Inspection Requirement
- 2.6. QAS-001-01 Nonconformance Notification Form
- **2.7.** QAS-001-02 Purchase Order Terms and Conditions
- 2.8. ANSI/ESD S20.20 Protection of Electrical and Electronic Parts, Assemblies and Equipment
- 2.9. AS9146 FOD Prevention
- 2.10 AS6174 Counterfeit Material, Assuring Acquisition of authentic and Conforming Material.

3. Quality Management System Requirements

3.1 General Requirements

Suppliers are required to complete at a minimum a Quality System survey and provide evidence of compliance to the appropriate QMS prior to being added to the Electromech Approved Supplier List. Suppliers are subject to an onsite audit at the Electromech Materials and/or Quality Manager's discretion at any time. Suppliers with a Quality System that is registered by a Third Party facility are preferred. Suppliers not compliant / certified / registered / accredited may be subject to removal from the Electromech Technologies Approved Supplier List (ASL). Electromech Technologies, at its discretion, may elect to continue a business relationship with the supplier based on the results of an on-site audit of their Quality System and the supplier's perseverance to achieve compliance / certification / registration / accreditation.



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3.1.1. Distributors

In addition to the requirements noted herein, Distributors shall have a Quality System compliant to the latest revision of AS9120, Quality Management System Aerospace Requirements for Aviation Space and Defense Distributors, AS9100 or ISO9001 Quality Management Systems Aerospace Requirements. NOTE: Distributors must have a system in place to notify Electromech Technologies of any manufacturing changes and or component obsolescence. (Reference para 3.6 for additional information on change notification.) Traceability to original equipment manufacturer (OEM) must be maintained.

3.1.1.1 Electronic Components or assemblies

Suppliers of Electronic components, assemblies or Materials shall be compliant with the AS5553 Counterfeit Electronic Parts and AS6174 Counterfeit Material: Avoidance, Detection, Mitigation and Disposition standard. Electronic components and Material may be purchased from a distributor or from the manufacturer. Where Electromech Technologies drawings and part numbers are used, all print requirements, including sources must be followed. As required, customer approved sources, drawings and specifications must be met. NOTE: Manufacturers must have a system in place to notify Electromech Technologies of any manufacturing changes and or component obsolescence. (Reference para 3.6 for additional information on change notification.) Traceability to original equipment manufacturer (OEM) must be maintained.

3.1.2. Manufacturers

In addition to the requirements noted herein, Suppliers shall have a Quality System compliant to the latest revision of AS9100 Quality Management Systems Aerospace Requirements or ISO 9001 Quality Management Systems requirements.

Suppliers of Electronic components, assemblies or Materials shall be compliant with the AS5553 Counterfeit Electronic Parts and AS6174 Counterfeit Materials: Avoidance, Detection, Mitigation and Disposition standard. Electronic components may be purchased from a distributor or from the manufacturer. Where Electromech Technologies drawings and part numbers are used, all print requirements, including sources must be followed. As required, customer approved sources, drawings and specifications must be met. NOTE: Manufacturers must have a system in place to notify Electromech Technologies of any manufacturing changes and or component obsolescence. (Reference para 3.6 for additional information on change notification.) Traceability to original equipment manufacturer (OEM) must be maintained.



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- Electromech requires that manufacturers use NADCAP approved suppliers as noted below for manufactured parts. Note: for product that has been classified as industrial by Electromech, the use of NADCAP approved suppliers is not required.
- Commercial off the Shelf (COTS) part A part which is offered by the manufacturer for sale to the public and is used without modification. Such parts are procured by CAGE code and Manufacturer part number only, or are defined by a manufacturer part number listed on the Electromech Engineering Drawing for the part. In cases where a manufacturer part number is listed as material on an Electromech Engineering Drawing and the final part is subsequently modified in accordance with the drawing, the material is a COTS part, the final part is not. Traceability to original equipment manufacturer (OEM) must be maintained.
- Specification Control Drawing A drawing which defines a part by envelope, interface, and performance requirements instead of complete detailed dimensional, material and process requirements.

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3.1.3. Special Processors

Special Process Suppliers shall achieve and maintain NADCAP (National Aerospace and Defense Contractors Accreditation) accreditation for the following special processes:

- Chemical Processing & Coatings (includes conversion coating, painting (prime and top coat), plating, anodize, passivation, etch and various other wet processing)
- Heat treating
- Non Destructive Testing
- Welding and Brazing
- Surface Enhancement (Shot Peening)
- Raw Material Testing

*Note: For product that Electromech has identified as industrial does not require the use of NADCAP approved special process suppliers.

A waiver for NADCAP may be issued by the Purchasing Delegate, if approved by the Quality Manager or delegate, if contractually, or by customer agreement, it is not required. Requirements for using only Electromech Technologies customer approved special process sources is specifically identified by the Electromech Technologies purchase order and/or engineering drawing. More information about NADCAP, including a list of NADCAP approved processors, can be found at www.pri-network.org/nadcap



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3.1.4. Calibration

Calibration laboratories which are accredited to national/international standards are preferred.

3.2. Flow Down

Suppliers are required to flow down to sub-tier suppliers the requirements of Electromech Technologies Purchasing and Quality documents, including key characteristics where required.

3.3. Conflict Minerals Reporting

In July 2010, the Dodd-Frank Wall Street Reform and Consumer Protection Act (the "Act") went into effect. Section 1502 of the Act requires all U.S. publicly traded companies to report to the U.S. Securities and Exchange Commission on their use of "conflict minerals" (tin, tantalum, tungsten and gold) in their products.

Electromech Technologies, is a subsidiary or division of a U.S. public reporting company, Transdigm Group Incorporated, and is therefore subject to the SEC rules on disclosure of the use of tantalum, tungsten, tin or gold (the "conflict minerals") in our supply chain. In order to comply with the disclosure requirements, we are performing due diligence on the source and chain of custody of any conflict minerals we purchase directly, or which are incorporated into the products we purchase, from our suppliers.

Electromech requires that companies supplying parts or product for use in Electromech product complete or have completed a Conflict Minerals Questionnaire. Electromech requires that you flow this down to your suppliers as well. If you are unable to complete this request or indicate that any of the conflict minerals do originate in the "covered countries", then we will likely need to conduct additional due diligence with your company and your supply chain in order to determine the source of the conflict minerals.

3.4. Right of Entry

Suppliers are required to provide the right of entry to Electromech Technologies personnel, Electromech Technologies customers, and regulatory authorities. Suppliers are also required to afford Electromech Technologies the right to verify supplied product conforms to specified requirements.

3.5. Notification of Changes

Suppliers are required to notify Electromech Technologies of any significant organizational or facility changes, such as, company name, location or senior management within two business days.

3.6. Notification of Product or Process Changes

Changes to COTS parts (see definition in section 3) which could impact the form, fit or function of the part requires that documented notification be provided to Electromech prior to shipment.

Changes to a non-COTS supplier controlled product design or a defined process which could impact



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the form, fit, or function defined on the Electromech drawing requires documented approval by Electromech Technologies prior to incorporation of the change.

3.7. Design, Testing, Qualification, Inspection

Requirements for providing test specimens for design approval, inspection, investigation, or auditing are identified by the Electromech Technologies purchase order and/or engineering drawings. Requirements for design, test, examination, inspection, or related instructions for acceptance by Electromech Technologies are identified by the Electromech Technologies purchase order or engineering drawing and this document. Requirements for Electromech Technologies approval or qualification of product, material, manufacturing process or equipment to be used is specifically identified by the Electromech Technologies purchase order and/or engineering drawing.

3.8. Eye Examination

Electromech Technologies requires individuals performing inspection of product for final acceptance have annual eye examinations with records for visual acuity and color vision administered by a medically trained/qualified person. Individuals shall have the following vision in at least one eye, either corrected or uncorrected: Near Vision – Snellan 14/18 or better (20/25 or better), Jaegar Type 2 at 14 inches or greater, Ortho-Rater 8 or equivalent. Color Vision – Must be able to distinguish & differentiate between colors used for which certification is required, process performed or inspection activity. Testing for color vision is required annually for each individual. Soldering personnel must successfully pass a training course administered by trained and accredited individual. Records of soldering personnel and training personnel must show compliance to a national/international accredited program.

3.9. Communication

All communication, including certifications, between the supplier and Electromech Technologies shall be in the English language. In cases where there is a conflict between native languages as well as in English language, the English language document shall take precedence.

3.10. First Article Inspection

First Article Inspections are to be performed by the supplier in accordance with the current revision of AS9102 Aerospace Standard. Note: First Articles are not required for standard catalog hardware (a part or material which conforms to an Industry or National specification). This Standard is available at the following website: http://standards.sae.org among others. The AS9102 First Article Inspection form or equivalent (see AS9102) shall be utilized to document the first article inspection. All characteristics, including reference and notes are required on the forms. Certifications are required for all material and processes identified on the drawing.

3.10.1. First article inspection report is required for all first time deliveries to Electromech. The supplier is responsible for determining when a First Article is to be re-accomplished. *see 3.10.4 below.



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- **3.10.2.** For First Article Inspection of Electromech or Electromech's Customer Designed product, a ballooned (bubbled) drawing is required to provide traceability to the characteristics inspected. Material and processing certifications are required.
- **3.10.3.** First Article Inspection Reports require the inspection of all design requirements specified by the engineering drawing and reference specifications.
- **3.10.4.** Partial or re-accomplishment of First Article Inspection shall be provided by the supplier in accordance with AS9102. (Drawing change, process change, tooling change, supplier change.) NOTE: If there has been a lapse in <u>delivery</u> over two years and requirements of AS9102 do not pertain to the lot being supplied, the supplier shall provide a copy of the First Article Inspection Report for the lot manufactured. Product will not be accepted until First Article Inspection Reports are received if it is determined by Electromech that one is required. This delay may affect the delivery performance of the supplier.
- **3.10.5.**Request to waive or to conduct AS9102 First Article Inspection reports at Electromech will be submitted in writing to the Quality Manager for approval. All material and processing certs will be required if FAI is to be conducted at Electromech.
- **3.10.6.** Product will be held at incoming inspection if First Article Inspection Reports and certifications are not received at the time of shipment. This will result in a late delivery and will negatively affect the supplier performance.

3.11. Supplier Performance

Electromech will provide on a regular basis a supplier scorecard depicting the supplier quality and delivery performance. It is the supplier's responsibility to maintain the accuracy of the scorecard. Any discrepancies should be discussed with the Electromech Buyer. Suppliers are expected to continually improve their Quality and Delivery Performance.

- **3.11.1.**Quality performance is (Total pieces received nonconforming pieces) / Total pieces received)
- **3.11.2.** Delivery performance is Total deliveries received on time* / Total deliveries received. *On time deliveries are those deliveries received within a seven days of the due date.
- **3.11.3.** Supplier Composite Performance is the average of the on time delivery and quality performance.

Electromech's Supplier Management goal is to develop alliances with suppliers to determine appropriate actions which will result in mutually beneficial results. Supplier performance records are used to classify suppliers. This classification identifies exemplary performance as well as where actions are needed to improve performance.



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Classification	Percentage	Action Required	
Outstanding	100 - 99	Meets or exceeds **	
	98 - 96	Generally acceptable, may require	
Good	96 - 90	improvement to specific areas	
Marginal	95 - 93	Requires improvement	
Unacceptable	92 and below	Immediate attention required	

^{**}Suppliers in this classification will be given first opportunity to support new business.

Corrective action may be requested as deemed required by the Quality Manager, Materials Manager or their delegates. If improvement is not seen within a reasonable amount of time, the supplier is placed on probation and notified in writing. Continued deficient performance may result in removal of the supplier from the Approved Supplier List.

3.12. Control of Nonconforming Product

Suppliers are required to notify Electromech Technologies of all nonconforming products prior to shipment to Electromech. Suppliers should utilize the Nonconformance Notification form (form # QAS-001-01) which is available on our website at www.electromech.com. All nonconforming products, even if approved by Electromech Engineering, will affect the Quality Performance Rating of the supplier. Corrective action may be requested. Delivery is only permissible after written approval by Electromech Engineering. The approved request shall accompany each shipment until the approved quantity has been shipped complete and shall be noted on the packing slip.

Supplier shall notify Electromech within 24 hours in the event a nonconformance to applicable design data applies to product that has been shipped to Electromech. Notification should include a clear description of the nonconformity, affected product identification, quantities and delivery dates as well as root cause and corrective and preventive action.

3.13. Control of Records

Supplier records shall be established to provide evidence of conformance to requirements and of effective operation of the Quality Management System. Records shall be controlled. Supplier shall establish a documented procedure to define the controls needed for the identification, storage, protection, retrieval, retention and disposition of records. These records, including but not limited to, material certifications, special process control records and certifications, inspection and first article inspection records, statistical process control records and build records shall be maintained by the supplier for a minimum of 10 years from ship date or as specified by purchase order. Should Electromech make a request for certifications for any reason, the supplier must make them available within 48 hours.



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3.14. Terms and Conditions

Purchase Order Terms and Conditions (form # QAS-001-02) is available on our website at http://www.electromech.com/

3.15. Electrical Discharge Machining

Electrical Discharge Machining (EDM) is not permitted on any Electromech product (effective 10/29/10), unless otherwise noted on the Electromech Drawing. Request from Purchasing to waive this requirement will be submitted in writing to the Director of Engineering or Engineering delegate for approval.

3.16. Supplier Control

Electromech requires approved suppliers have a supplier control program in place for their suppliers which includes at a minimum: Evaluation, approval and surveillance of suppliers; corrective action programs when a problem is identified; Flow down of all quality requirements; Risk analysis; and Control of documentation and records as specified herein.

3.17. Periodic Raw Material Validation

Suppliers are required to periodically validate test reports for raw material. A waiver for this requirement may be issued by the Purchasing Delegate, if approved by the Quality Manager or delegate, if contractually, or by customer agreement, it is not required.

3.18. Control of Customer Property

Suppliers are required to exercise care with property supplied by Electromech or Electromech's customers. Customer property includes tooling as well as technical documents. Supplier shall identify, verify, protect and safeguard customer property provided for use or incorporation into the product. If customer property is lost, damaged or otherwise found to be unsuitable for use, the supplier shall report it to the customer. Supplier shall return customer property upon written request from the customer.

3.19. Electrostatic Sensitive Devices (ESD)

Suppliers shall have an ESD program that complies with S20.20, Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices) for applicable part numbers.

3.20. Foreign Object Damage/Debris (FOD)

Supplier shall develop and maintain a FOD program that complies with the requirements of AS9146 or equivalent to identify, eliminate and protect against foreign object debris or damage.

4. Certification Requirements

4.1. All documentation submitted must be traceable to the Electromech Technologies P.O. Number and Electromech Part number. When specific standards are required, the Certificate of Conformance must explicitly state the standard and revision letter the product/material conforms to, purchase order number, supplier name and address, heat lot number, cure dates, etc.



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4.2. Suppliers are responsible for understanding and complying with the DFARS specialty metals clause(s) and exceptions. It is the suppliers responsibility to determine if the product being supplied is/or contains a specialty metal and if it is DFARS compliant. If additional information is required concerning DFARS Specialty Metals clause(s) and exceptions call 703-602-0328 or 703-602-0131. A waiver for DFARS may be issued by the Purchasing Delegate if contractually, or by customer agreement, it is not required. Refer to Appendix A for DFARS Clauses.

4.3. Certification requirements for Suppliers

A Certification of conformance (C of C) is required for all product delivered to Electromech providing traceability to the product being delivered. Each C of C shall include, at a minimum, the following information:

- Supplier name and address
- Date
- Electromech Purchase Order
- Quantity
- Part number, description and revision (both ET and supplier when applicable)
- Serial number, date code or lot number, when applicable
- Statement of conformance stating compliance to all purchase order and design data requirements, including specifications
- Signature of authorized supplier representative
- Shelf life data when applicable
- Ref 4.3.6 and 4.3.7 below also for bearings and O rings items.

4.3.2. Distributors

Suppliers of miscellaneous hardware items such as nuts, bolts, fasteners, studs, inserts, terminals, etc, that are purchased under a national standard or supplier part number may be from either the actual manufacturer or a distributor. In either case, the supplier shall provide a specific Certificate of Conformance statement referencing all drawing, purchase order requirements (including part number), and quantities shipped. For items with an Electromech part number/ drawing, original manufacturer's certifications are required. *Refer to note in paragraph 4.3.3.

4.3.3. Manufacturer's

Raw material (physical, chemical analysis and test reports) and special process certifications must accompany all shipments of product to Electromech. Certifications submitted with the first shipment of material on a purchase order do not cover subsequent shipments. NOTE: DFARS specialty metals clause applies and NADCAP approved suppliers must be used when applicable in accordance with the drawing. COTS (Commercial off the shelf) and Specification Control Drawing parts are excluded from this requirement.



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NOTE: Suppliers (Distributor or Manufacturer) of Electronic Component and assemblies including Printed Circuit Boards, shall provide a Certificate of Conformance statement with test results in addition to statement indicating drawings and specifications and customer approved sources, as applicable, have been met. Original manufacturer's certifications are required with all shipments.

4.3.4. Special Processors

Specific Certificate of Conformance's shall be provided for all special processes performed on production material. If the purchase order or drawing lists a specific controlling specification for the process, that specification shall be referenced in the Certificate of Conformance, including specification revision level and date. If no controlling specification is referenced, the Certificate of Conformance shall indicate the general parameters of the process performed. All special process Certificate of Conformance's shall reference a specific purchase order, part number, and quantity.

NOTE: NADCAP approved Suppliers must be used.

4.3.5. Calibration

The certificate of conformance statement for calibration services shall reference the procedures, processes, and equipment and indicate the results as acceptable or unacceptable as well as calibration due date. Traceability to National Institute for Standards and Technology (NIST) must be recorded on the certificate of conformance.

4.3.6. Shelf Life Items

All Shelf life items must have 80% or greater shelf life remaining at the time of receipt. Items made from elastomers such as gaskets, O-rings, seals, etc.; require a specific Certificate of Conformance indicating 80% or greater shelf life remaining. Items made from brand materials, such as Teflon or Viton, should reference these recognized materials and specific compounds. As applicable, the manufacturing date, cure date, expiration date and lot / batch number of such material shall be specified.

Paints, Varnishes, Adhesives require specific Certificate of Conformances referencing the appropriate specifications when products are ordered to controlling specifications (such as Military Standard or ANSI standards). The lot number and expiration date of such material as well as a statement indicating 80% or greater of the shelf life remaining shall be specified on the certification and affixed to each container

4.3.7 Bearings require a certificate of conformance stating the manufacturer's name, the manufacturer's part number, the country of origin and verification of lubrication and bearing type. Purchasing will request test reports or chemical / physical analysis at time of quotation if required.



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5. Part and Component Protection

5.1. Material Classifications

The requirements for providing adequate protection of materials (materials, parts, components, and finished products) are dependent on the specific material classification. These include in-process, stored or transported materials. Electromech has identified three broad classifications of materials each of which have basic packaging requirements which are specified herein. Refer to 5.2.3 for material protection requirements. These classifications are defined as follows:

5.1.1. Class 1 - Mechanical Parts and Components

Includes:

- Electromech Technologies designed parts and components
- Machined parts (partially or completely finished parts)
- Plated parts
- Castings
- Bearings
- Standard electrical parts (connectors, switches, etc)
- Any other materials not classified as Class 2 or 3

5.1.2. Class 2 – Electronic Components and Products

Includes:

- Electronic components (transistors, resisters, capacitors, etc)
- Electronic products (end products such as level sensors, controllers, assembled circuit boards)
- Reference ANSI/S20.20 for additional information.

5.1.3. Class 3 - Bulk Items and Raw Material

Includes:

- Bolts, nuts, screws
- Rivets, wire
- O-rings, gaskets
- Other items random packaged in bulk



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5.2. Material Protection Requirements

The use of staples and newspaper is prohibited on any packaging.

5.2.1. Class 1 - Mechanical Parts and Components

This class of materials requires individual protection of each item such that adequate protection (packaging or preservation) is provided to prevent physical damage or deterioration during handling, transporting, and storage.

- Seal pack packaging of one or more parts is acceptable if the parts do not contact each other.
- Multi-wrapping of smaller parts is acceptable if parts do not contact each other.
- Packaging must include appropriate precautions for preservation where needed (e.g. grease for bearings, desiccant to eliminate moisture, oiled for protection from rust/corrosion, etc.)
- Protection for exposed threads and splines to preclude damage, corrosion, and contamination.
- Shipping containers/packaging must be of an appropriate grade to provide adequate protection, in particular for fragile parts.
- Identification and traceability shall be maintained.

5.2.2. Class 2 - Electronic Parts and Components

This class of materials requires individual protection of each item such that adequate protection is provided to prevent physical damage during handling, transporting, and storage. The use of appropriate faraday containers is required. In addition, the packaging must provide protection from electrostatic discharge. Reference ANSI/S20.20 and ANSI/ ESDS541 for additional information on handling and packaging requirements.

- Multi-wrapping of smaller parts is acceptable if parts do not contact each other and if each part is contained in ESD protective packaging.
- Identification and traceability shall be maintained.

5.2.3. Class 3 – Bulk Items and Raw Material

Bulk items generally do not require any special protection. However, some bulk items (i.e. O-rings) should be bagged in small quantities (by batch number) to provide for adequate protection from damage, shelf life considerations or lot traceability. Identification and traceability shall be maintained.



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Appendix A

DFARS Clauses

- 52.222-50 COMBATING TRAFFICKING IN PERSONS
- 55.222-56 CERTIFICATION REGARDING TRAFFICKING IN PERSONS COMPLIANCE PLAN
- 252.203-7001 PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER DEFENSE-CONTRACT-RELATED FELONIES
- 252.203-7002 REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS
- 252.203-7003 AGENCY OFFICE OF THE INSPECTOR GENERAL
- 252.203-7004 DISPLAY OF FRAUD HOTLINE POSTERS (Applies when the Agreement exceeds \$5,000,000)
- 252.204-7000 DISCLOSURE OF INFORMATION
- 252.204-7012 SAFEGUARDING OF UNCLASSIFIED CONTROLLED TECHNICAL INFORMATION (Applies when the Agreement involves access to unclassified controlled technical information resident on or transiting through Seller's unclassified information systems) 252.209-7004 SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR CONTROLLED BY THE GOVERNMENT OF A TERRORIST COUNTRY
- 252.211-7000 ACQUISITION STREAMLINING
- 252.211-7003 ITEM IDENTIFICATION AND VALUATION
- 252.215-7000 PRICING ADJUSTMENTS
- 252.219-7003 SMALL BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS)
- 252.222-7006 RESTRICTIONS ON THE USE OF MANDATORY ARBITRATION AGREEMENTS
- 252.223-7008 PROHIBITION OF HEXAVALENT CHROMIUM
- 252.225-7001 BUY AMERICAN ACT AND BALANCE OF PAYMENTS PROGRAM
- 252.225-7002 QUALIFYING COUNTRY SOURCES AS SUBCONTRACTORS
- 252.225-7006 QUARTERLY REPORTING OF ACTUAL CONTRACT PERFORMANCE OUTSIDE THE UNITED STATES
- 252.225.7007 PROHIBITION ON ACQUISITION OF UNITED STATES MUNITIONS LIST ITEMS FROM COMMUNIST CHINESE MILITARY COMPANIES
- 252.225-7008 RESTRICTION ON ACQUISITION OF SPECIALTY METALS
- 252.225-7009 RESTRICTION ON ACQUISITION OF CERTAIN ARTICLES CONTAINING SPECIALTY METALS (Applies when the Goods contain specialty metals; Note: Use of exceptions not permitted without advance Seller notification and prior Purchaser approval. Paragraph (d) of this clause is excluded)
- 252.225-7010 COMMERCIAL DERIVATIVE MILITARY ARTICLE SPECIALTY METALS COMPLIANCE CERTIFICATE
- 252.225-7012 PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES
- 252.225-7013 DUTY-FREE ENTRY (Applies when providing components from a qualifying country or components from a nonqualifying country when the estimated duty is expected to exceed \$200 per unit)
- 252.225-7015 RESTRICTION ON ACQUISITION OF HAND OR MEASURING TOOLS
- 252.225-7016 RESTRICTION ON ACQUISITION OF BALL AND ROLLER BEARINGS (Applies when Agreement requires Seller to provide a ball and roller bearing that that is not incorporated into a higher level assembly)
- 252.225-7021 TRADE AGREEMENTS
- 252,225-7022 TRADE AGREEMENTS CERTIFICATE- INCLUSION OF IRAQI END PRODUCTS
- 252.225-7025 RESTRICTION ON ACQUISITION OF FORGINGS
- 252.225-7028 EXCLUSIONARY POLICIES AND PRACTICES OF FOREIGN GOVERNMENTS
- 252.225-7030 RESTRICTION ON ACQUISITION OF CARBON, ALLOY, AND ARMOR STEEL PLATE
- 252.225-7032 WAIVER OF UNITED KINGDOM LEVIES EVALUATION OF OFFERS
- 252.225-7033 WAIVER OF UNITED KINGDOM LEVIES
- 252.225-7036 BUY AMERICAN ACT- FREE TRADE AGREEMENT BALANCE OF PAYMENTS
- 252.225-7037 EVALUATION OF OFFERS FOR AIR CIRCUIT BREAKERS
- 252.225-7038 RESTRICTION ON ACQUISITION OF AIR CIRCUIT BREAKERS
- 252.225-7048 EXPORT-CONTROLLED ITEMS
- 252.225-7993 PROHIBITION ON CONTRACTING WITH THE ENEMY IN THE UNITED STATES CENTRAL COMMAND THEATER OF



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OPERATIONS

252.225-7994 ADDITIONAL ACCESS TO CONTRACTOR AND SUBCONTRACTOR RECORDS IN THE UNITED STATES CENTRAL COMMAND THEATER OF OPERATIONS

252.226-7001 UTILIZATION OF INDIAN ORGANIZATIONS, INDIAN-OWNED ECONOMIC ENTERPRISES, AND NATIVE HAWAIIAN SMALL BUSINESS CONCERNS

252.227-7013 RIGHTS IN TECHNICAL DATA-NONCOMMERCIAL ITEMS (Applies when technical data is specified to be delivered under the Agreement)

252.227-7014 RIGHTS IN NONCOMMERCIAL COMPUTER SOFTWARE AND NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION

252.227-7015 TECHNICAL DATA—COMMERCIAL ITEMS

252.227-7016 RIGHTS IN BID OR PROPOSAL INFORMATION

252.227-7017 IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS

252.227-7018 RIGHTS IN NONCOMMERCIAL TECHNICAL DATA AND COMPUTER SOFTWARE--SMALL BUSINESS INNOVATIVE RESEARCH (SBIR) PROGRAM

252.227-7019 VALIDATION OF ASSERTED RESTRICTIONS - COMPUTER SOFTWARE

252.227-7020 RIGHTS IN SPECIAL WORKS

252.227-7021 RIGHTS IN DATA--EXISTING WORKS

252.227-7025 LIMITATIONS ON THE USE OR DISCLOSURE OF GOVERNMENT-FURNISHED INFORMATION MARKED WITH RESTRICTIVE LEGENDS

252.227-7026 DEFERRED DELIVERY OF TECHNICAL DATA OR COMPUTER SOFTWARE

252,227-7027 DEFERRED ORDERING OF TECHNICAL DATA OR COMPUTER SOFTWARE

252.227-7028 TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT

252.227-7030 TECHNICAL DATA—WITHHOLDING OF PAYMENT (Applies when technical data is specified to be delivered under the Agreement)

252.227-7032 RIGHTS IN TECHNICAL DATA AND COMPUTER SOFTWARE (FOREIGN)

252.227-7037 VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA (Applies when technical data is specified to be delivered under the Agreement)

252.227-7038 PATENT RIGHTS-OWNERSHIP BY THE CONTRACTOR (LARGE BUSINESS)

252.227-7039 PATENTS--REPORTING OF SUBJECT INVENTIONS

252.232-7004 DOD PROGRESS PAYMENT RATES

252.234-7002 EARNED VALUE MANAGEMENT SYSTEM

252.235-7003 FREQUENCY AUTHORIZATION

252.236-7013 REQUIREMENT FOR COMPETITION OPPORTUNITY FOR AMERICAN STEEL PRODUCERS, FABRICATORS, AND MANUFACTURERS

252.239-7018 SUPPLY CHAIN RISK (Applies when the Agreement involves the development or delivery of any information technology whether acquired as a service of as a supply)

252.243-7001 PRICING OF CONTRACT MODIFICATIONS

252.244-7000 SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS (DOD CONTRACTS)

252.246-7001 WARRANTY OF DATA (Applies when technical data is specified to be delivered under the Agreement)

252.246-7003 NOTIFICATION OF POTENTIAL SAFETY ISSUES

252.246-7007 CONTRACTOR COUNTERFEIT ELECTRONIC PART DETECTION AND AVOIDANCE SYSTEM

252.247-7023 TRANSPORTATION OF SUPPLIES BY SEA

252.247-7024 NOTIFICATION OF TRANSPORTATION OF SUPPLIES BY SEA

252.249-7002 NOTIFICATION OF ANTICIPATED CONTRACT TERMINATION OR REDUCTION

5252.227-9507 NOTICE REGARDING THE DISSEMINATION OF EXPORT-CONTROLLED TECHNICAL DATA (NAVAIR)



QUALITY SPECIFICATION

Rev: <u>K</u> Date: <u>10/8/19</u>

Record of Revision

Revision	Date of	Description of Revision		
Letter	Revision	·		
NC	3/30/12	Incorporated requirements of QAS-001, QAS-002 and QAS-003 into one		
		document. Revise First Article Requirements 2.10.		
А	7/11/12	Updated 2.1 last paragraph, deleted 2.6.4 (duplicate of 2.6.3); added 2.16		
		Supplier Control, added 2.17 and to section 1(f) validation of raw materials		
		(removed from AS9100, but still a customer requirement oversight, should		
		not have been removed when QAS documents were merged.)		
В	7/29/13	Substantial rewrite.		
С	11/22/13	Add section 3.3 to specify requirements for Conflict Mineral Reporting. Add		
		Waiver statement to para 2.17 and 3.3.5		
D	06/18/14	Updated 3.3.1, added COTS definition		
E	7/13/15	Updated 2.1.1 and 2.1.2 revised specification, moved information from		
		3.3.2 to 2.1 to align document. Updated hyperlink in 2.10. Updated 2.11.2		
		to define current delivery requirements, updated 2.11.3 table to define		
		current classification percentages. Updated 3.3.4 to add NIST and remove		
		outdated standard. Moved statement about no staples to beginning of 4.2		
		to cover all packaging. Updated 4.2.2 to add ANSI S20.20 and		
		ANSI/ESD/S541 specifications for ESD items. Changed Purchasing Manager		
		to Materials Manager throughout.		
F	7/7/16	Added 2.1.1.1, Added traceability statement to 2.1.1, 2.1.1.1, 2.1.2.1 and		
		2.1.2.3.; Updated 2.1.2.1 to add "be compliant with"; updated 2.10. to		
		stated "including reference"; updated 2.10.1 changed 2.9.4 to 2.10.4, added		
		DFAR's clauses to 3.2 and added Appendix A; added 2.19 ESD and 2.20 FOD;		
		added c of c information to 3.3; added reference to Note in 3.3.2; made		
		3.3.3 a note.		
G	12/13/17	Added section 2. Reference, Updated section 3.13. to add "from ship date",		
		Updated section 4.3. to add ", date code", Updated Appendix A to add		
		"52.222-50 COMBATING TRAFFICKING IN PERSONS" and		
		"55.222-56 CERTIFICATION REGARDING TRAFFICKING IN PERSONS		
		COMPLIANCE PLAN", and all instances of "AS9102 para 5.3" were changed		
		to "AS9102".		
Н	3/12/18	Removed all the typographical errors from some DFARS Clauses		
J	9/05/2018	Revised typo section 2.7 QAS-002-01 TO QAS-001-02. Added 2.10 per		
		AS9100 REV D audit as reference. Added to 4.3 to reference 4.3.6 & 4.3.7		
		also. Added last sentence in section 4.3.7. Reference update due to bearing		
ν	10/9/10	certs traceability.		
K	10/8/19	Added AS6174 to section 3.1.1.1 & 3.1.2. Added AS9146 to Section 4.20		



QUALITY SPECIFICATION

lev: K	Date:	10/	8/	19

Approved by:		
, ,	Quality Manager/ Date	