

	SUPPLIER QUALITY REQUIREMENTS	Doc. No.	Rev.	Rev. Date
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Prepared By (Signature)	Approved By (Signature)	Revision	Date	Reason for Change
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### 1.0 PURPOSE

This document defines the quality system requirements for suppliers who provide services to AMETEK. This document shall be referenced on all purchase/repair orders issued by AMETEK.

### 2.0 APPLICATION

Supplier quality requirements defined in this document are agreed upon by and applicable to the following AMETEK MRO business units:

- Drake Air, Inc.
- Southern Aeroparts
- B&S Aircraft Accessories

This specification applies to all suppliers and their subcontractors who furnish products, materials, processes, or product related services to any of the above business units as a contract requirement, regardless of supplier's industry, regulatory accreditation, or certification status. The business units reserve the right to flow down additional requirements to satisfy specific customer and/or business requirements that will apply to that business unit.

### 3.0 REFERENCES

Document	Title
AMS	Packaging and Identification of Molded Elastomeric Seals and Sealing Components
AS5553	Fraudulent/Counterfeit Electronic Parts; Avoidance, Detection, Mitigation and Disposition
AS6174	Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Material
AS9100	Quality Management Systems – Requirements for Aviation, Space and Defense Organizations
AS9102	Aerospace First Article Inspection Requirement
AS9104	Requirements for Aviation, Space, and Defense Quality Management System Certification Programs
AS9110	Quality Management Systems – Requirements for Aviation Maintenance Organizations
AS9120	Quality Management Systems – Requirements for Aviation, Space and Defense Distributors
AS9146	Foreign Object Damage/Debris Prevention
ISO/IEC 17025	Testing and Calibration Laboratories
NADCAP AC7004	NADCAP Quality Management System
14 CFR Part 5	Safety Management Systems

## 4.0 TERMS AND DEFINITIONS

Term	Definition
Certification Body	An independent accredited organization that audits and certifies whether a company's management system, product, or service meets a specific standard or regulation.
Civil Aviation Authority	Referred to as National Aviation Authority (NAA); the governing body of a country or countries, which establishes rules, laws, guidance and other requirements related to commercial aviation, including manufacturing and maintenance activities.
Consumables	Products consumed during the course of manufacturing/maintenance, such as chemicals, paints, sealants, cleaners, etc.
Distributor	Organization who purchases, stores and sells products, including aircraft components, raw materials, consumables, etc.
Quality Management System (QMS)	A formal set of processes, policies, and procedures an organization uses to consistently meet customer requirements, comply with regulations, and continually improve quality.

## 5.0 REQUIREMENTS

### 5.1 QUALITY MANAGEMENT SYSTEM REQUIREMENTS

The supplier shall have a documented Quality Management System (QMS) and shall be controlled by written procedures that conform with (and/or be certified to) the requirements of one or more of the following standards:

- AS9100
- AS9110
- ISO9001
- NADCAP AC7004
- Other (as specified by the Purchase/Repair Order)

Certificated suppliers shall be accredited by a Certification Body that is accredited by International Aerospace Quality Group (IAQG) certification/registration protocols, as recognized by the aerospace standard SAE AS9104. Refer to IAQG website for a list of accredited Certification Bodies.

In the event that the supplier contracts/subcontracts services to a sub-tier supplier, an AMETEK approved vendor shall be utilized, unless prior written approval from AMETEK is provided. Supplier shall be responsible for the quality of all services contracted/sub-contracted to sub-tier supplier(s) and the flow down of all customer/contractual requirements.

*\*For any procedure, specification, regulatory standard etc. listed or stated herein or on the Purchase/Repair Order, the revision status shall be what is currently in effect as of the date of the Purchase/Repair Order issuance\*.*

As a minimum, the supplier's QMS shall include, as applicable:

- All inspection requirements and acceptance criteria shall be documented under specific established procedures.
- Inspection records shall be maintained throughout the supplier's system (receiving through shipping). These records shall reflect the type of inspection performed, the number of pieces inspected from the lot and shall document any discrepancies observed.
- A method of identifying inspection status of products by using stamps, tags, routing cards, labels or other means of control shall be utilized.

- A corrective action program that includes notification of discrepancies to subcontractors and customers shall be in place.
- Accepted, rejected or withheld materials/products shall be identified and segregated.
- A program to prevent the use of Suspected Unapproved Parts (SUP) / Counterfeit Parts.
- A program to mitigate the risk of Foreign Object Debris/Damage (FOD).
- Product Safety Provisions.
- Policy for Ethical Behavior.

## 5.2 DISTRIBUTOR CERTIFICATION

Distributors, or organizations carrying out the purchase, storage and sale of aircraft products may be duly certified to the applicable SAE AS/EN/JISQ 9100 series standard. Non-certified suppliers shall comply with AMETEK quality requirements.

## 5.3 COMMUNICATION

Supplier shall accept agreements and instructions (purchase orders, repair orders, amendments, etc.) in writing. Verbal agreements/instructions are discouraged and not binding.

Supplier shall formally communicate with AMETEK in writing, via AMETEK's purchasing and quality departments, as applicable.

## 5.4 COMPLIANCE

Suppliers and their subcontractors shall understand and comply with Quality Management System requirements defined herein. Suppliers shall comply with applicable commercial, military and customer requirements. Suppliers shall comply with applicable civil aviation authority requirements, including but not limited to:

- Regulations
- Airworthiness Directives
- Maintenance Publications

## 5.4 RIGHT OF ACCESS

Suppliers shall grant access to all data in the Online Aerospace Supplier Information Center (OASIS) data, including registration documentation, certification, audit reports, findings, corrective actions, etc. to any/all AMETEK business units identified in Section 2.0. AMETEK reserves the right to input significant and/or quality escape data and major audit findings regarding suppliers into the relevant OASIS database records for those suppliers.

AMETEK, its representatives, its customers, and its customer's governmental agencies or regulatory agencies shall have the right of entry into a supplier's facility or that of their subcontractors. Entry shall provide for access to quality system documentation, quality records as well as the ability to conduct audits, verify product and processes. This right of access shall be flowed down by the supplier to its sub-tier suppliers. Right of access activities include but may not be limited to:

- Examination and/or review of the quality management system and facilities;
- PO/Contract-related technical data and manufactured products or articles;
- Witness of any tests including any inspections or tests at any supplier facility (within the supply chain) necessary to determine compliance with the applicable purchase order requirements.

NOTE: AMETEK shall provide reasonable, advanced notification of any planned visit to ensure access and cooperation of all involved facilities in the supply chain for themselves or their representatives. This activity will be performed in such a manner to ensure minimal disruption to normal processing and shall be conducted on a non-interference basis.

## 5.5 QMS AUDITS

AMETEK reserves the right to perform QMS audits of suppliers.

## 5.6 ORDER ACCEPTANCE/ACKNOWLEDGMENT

By acceptance of an AMETEK Purchase/Repair Order, the supplier thereby acknowledges:

- Supplier is confirming it has sufficient resources to perform the services requested, including competent, qualified personnel.
- Supplier shall give right of access in accordance with Section 4.3.
- Supplier shall retain all records for a minimum of (5) years, and calibration records for a minimum of (2) years, or (2) complete calibration cycles, whichever is longer, unless otherwise specified in purchase/repair order requirements.
- Supplier is aware of its contribution to product or service conformity, product safety and the importance of ethical behavior.

## 5.7 NOTIFICATION, DEVIATION, CHANGE, APPROVAL AND FLOW DOWN

The supplier shall comply with the following:

- Prior to shipment of product, the supplier shall notify AMETEK of any noncompliance found during the manufacturing process.
- Prior to shipment of product, the supplier shall notify AMETEK of any deviations from the engineering drawings and/or specifications.
- The supplier shall notify AMETEK of any changes in product or process definition that may cause noncompliant product to ship or be delayed. The supplier will also maintain a process for the review and authorization of products and/or services that are outside the scope of the engineering documentation provided with the purchase order.
- Supplier shall provide AMETEK with notification of any changes in the certification / registration / accreditation / processes / sub-tier suppliers / transfer of work or major audit findings within ten (10) working days of receiving notification of the change or finding, and obtain approval, as applicable.
- Additionally, a change in supplier name, ownership, or facility location will subject the supplier's Quality System to reevaluation by AMETEK. The supplier shall notify AMETEK when any of the aforementioned changes has occurred in writing to the AMETEK buyer. The buyer will instruct the supplier on formal notification actions and specific forms to submit as necessary.
- The supplier shall flow down all applicable requirements/clauses as noted in this purchase order/contract to any sub-tier (e.g., any member of supply chain) who performs work in support of this contract. AMETEK shall be notified immediately if any requirement is unclear prior to the performance of any work.

## 5.8 NON-CONFORMING PRODUCT

In the event of the discovery of a non-conforming product, supplier shall notify AMETEK, for disposition. In all cases, the Supplier shall notify AMETEK of any noncompliance found or any deviation from drawings/specifications, prior to shipment. Supplier shall notify AMETEK within (48) hours of any nonconforming product escapes that affect products safety and/or reliability.

The supplier shall use appropriate evaluation and analysis tools (e.g., root cause analysis, 5-Why, problem solving, mistake proofing, etc.) to determine effectiveness of any corrective action necessary to prevent recurrence of product or process issues. In addition, the supplier shall flow down the requirement for use of these tools to their sub-tier suppliers to ensure prevention of non-compliant material escapes. Copies of the documentation for this process shall be made available upon request.

## 5.9 CONTROL OF COUNTERFEIT / SUSPECTED UNAPPROVED PARTS

The supplier shall have a counterfeit detection process (for Electrical & Non-electrical items) that is similar to, and meets the intent of, SAE AS5553. Companies that procure materials, parts, or components will ensure that it does not receive counterfeit parts into inventory, use them in manufacturing or inadvertently sell them to, or use on PDT product. Distributors or brokers that supply non-electrical parts (e.g., fasteners, nuts, washers, springs, o-rings, etc.) must have a certification from the (OCM/OEM) Original Component Manufacture/ Original Equipment Manufacturer. Use of Non-Franchised Distributors (NFD) is prohibited unless documented approval is received from AMETEK Quality Assurance (such approvals shall be case-by-case only) prior to shipment of material. These Certifications must be retained for a minimum of 10 years and be available to AMETEK upon request. For the controls of Counterfeit Electronic components, the supplier shall follow the guidelines of the latest revision of SAE AS5553. This requirement shall be flowed down to all sub-tier suppliers that

provide products to support AMETEK program(s). Counterfeit electronic parts and suspect counterfeit electronic parts shall not be returned to the supplier or otherwise returned to the supply chain until such time that the parts are determined to be authentic. Notification to the appropriate reporting authority shall be made (e.g., GIDEP, etc.). Federal Register Document number/sub-section 252.246-7007, Contractor Counterfeit Electronic Part Detection and Avoidance System, paragraphs (a) through (e) shall apply unless otherwise directed by AMETEK.

The supplier shall have a documented procedure for handling Suspected Unapproved Parts (SUP), which includes formal training, detecting SUP, and reporting SUP to customers and Federal Aviation Administration, or local National Airworthiness Administration.

#### 5.10 WORK INSTRUCTION CORRECTIONS

When corrections to work instructions are required, supplier shall ensure the corrections are recorded, dated, and signed in ink, or other permanent marking method with the original data being legible and retrievable after the change.

#### 5.11 WORK TRANSFER

There shall be no transfer of work for this order unless authorized in writing by AMETEK prior to work being performed. All manufacturing operations (excluding special processes) shall be performed within the contracted facilities at the location of the supplier as noted on the AMETEK purchase order. In the event that work transfer is authorized by AMETEK, all requirements within this purchase order shall be flowed down and shall apply as applicable. A copy of the signed authorization from AMETEK shall be included in the document package and accompany completed product shipment to AMETEK with each delivery.

Note: Authorizations shall be granted and will apply on a case-by-case basis only.

#### 5.12 CERTIFICATIONS

FAA/EASA-Certificated suppliers shall provide Federal Aviation Administration Form 8130-3 and non-certificated suppliers shall provide a Certificate of Conformance, and the original document shall accompany each product or article shipment. When possible, the supplier shall provide an FAA Form 8130/EASA Dual Release document. See FAA Order 8130.21 for procedures for completion of FAA Form 8130-3.

For aircraft components, supplier shall provide an FAA Form 8130-3 required for all non-standard parts provided and a Certificate of Conformance required for standard parts provided, and the original document shall accompany each product or article shipment. When possible, the supplier shall provide an FAA Form 8130/EASA Dual Release document. See FAA Order 8130.21 for procedures for completion of FAA Form 8130-3.

#### 5.12 ACCEPTANCE AUTHORITY MEDIA (AAM)

The supplier shall ensure that the use of Acceptance Authority Media (AAM) (e.g. stamps, electronic signatures, passwords) is clearly defined within its Quality Management System (QMS). Supplier shall ensure the method is controlled and secure.

### 6.0 RECORDS

Completed quality records shall be retained per Civil Aviation Authority requirements, or as defined in applicable quality clause, whichever is greater.

### 7.0 PURCHASING CLAUSES

See Appendix 1

### 8.0 QUALITY CLAUSES

See Appendix 2

## 9.0 REFERENCES

AS9100	Quality Management Systems – Requirements for Aviation, Space and Defense Organizations
AS9102	Aerospace First Article Inspection Requirement
AS9104	Requirements for Aviation, Space, and Defense Quality Management System Certification Programs
AS9110	Quality Management Systems – Requirements for Aviation Maintenance Organizations
AS9120	Quality Management Systems – Requirements for Aviation, Space and Defense Distributors
AS9146	Foreign Object Damage/Debris Prevention

## 10.0 APPENDICES

### 10.1 APPENDIX 1 – PURCHASING CLAUSES

The following purchasing clauses are applicable, if referenced in the AMETEK Purchase/Repair Order.

Clause #	Requirement
P001	<p><b>SPARES:</b> FAA Form 8130-3 required for non-standard parts in accordance with Quality Clause Q003. Certificate of Conformance required for standard parts, in accordance with Quality Clause Q004.</p>
P002	<p><b>DPAS RATED ORDER:</b> This Purchase/Repair Order is designated as a Defense Priorities &amp; Allocations System (DPAS) rated order, certified for national defense use. The supplier is hereby required to follow all the provisions of the defense Priorities and allocation system regulation (15 CFR 700) including providing written Notice of Acceptance or Rejection of this order and flow-down to lower-tier Suppliers.</p> <p><u>Written acceptance/rejection/on response of order required:</u></p> <p>(DO Rated Order) – within fifteen (15) business days after receipt of order</p> <p>(DX Rated Order) – within ten (10) business days after receipt of order</p> <p>NOTE: Willful violation of DPAS is a crime, punishable by a \$10,000 fine, or one year in prison, or both, per occurrence.</p>
P003	<p><b>CONFLICT MINERALS:</b> <i>“AMETEK is committed to ethical business conduct and the responsible sourcing of minerals through our global supply chain. In 2012, the Securities and Exchange Commission (SEC) issued final rules implementing the conflict minerals disclosure provisions of the Dodd-Frank Wall Street Reform and Consumer Protection Act. Under these rules, publicly traded companies must report annually on their use of conflict minerals (tantalum, tin, tungsten and gold) from the Democratic Republic of the Congo (DRC) or certain adjoining countries.”</i></p> <p>AMETEK is actively and diligently working with our global supply chain partners to ensure compliance with SEC regulations. The international supply chain for these minerals is complex and the tracing of them is challenging.</p> <p>If seller is providing goods to buyer under this purchase order, seller agrees to review and comply with buyer’s conflict minerals policy/public statement (see above) and to use commercially reasonable efforts to:</p> <ul style="list-style-type: none"> <li>• Identify whether such goods contain tantalum, tin, tungsten or gold,</li> <li>• Conduct a reasonable country of origin inquiry regarding the origin of such minerals in such goods to determine whether such minerals originated in Covered countries, as defined in Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act; and,</li> </ul>

	<ul style="list-style-type: none"> <li>• If such minerals originated in covered countries, conduct due diligence on the chain of custody of the source of such minerals for the purpose of Identifying the smelter of said minerals; and,</li> <li>• Assist buyers in conducting reasonable due diligence concerning the smelters of such minerals.</li> </ul> <p>Seller shall include the substance of this clause (24) “Conflict Minerals” in any agreement between seller and their lower tier suppliers. Seller shall provide buyer with reasonable documentation of seller’s and their lower tier suppliers’ due diligence efforts, in a format prescribed by buyer, when requested by buyer.</p> <p>To learn more about all of the compliance requirements defined in the “Conflict Minerals Final Rule,” please consult the SEC website at <a href="http://www.sec.gov/rules/final.shtml">http://www.sec.gov/rules/final.shtml</a>.</p> <p>To review the “OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas” visit: <a href="http://www.oecd.org/dataoecd/62/30/46740847.pdf">http://www.oecd.org/dataoecd/62/30/46740847.pdf</a>.</p>
P004	<p><b>FAR 52.204-21 – BASIC SAFEGUARDING OF COVERED CONTRACTOR INFORMATION SYSTEMS; NIST 800-171 – PROTECTING CONTROLLED UNCLASSIFIED INFORMATION (CUI) IN NON-FEDERAL SYSTEMS &amp; ORGANIZATIONS &amp; DFARS CLAUSE 252.204-7012 – SAFEGUARDING COVERED DEFENSE INFORMATION AND CYBER INCIDENT REPORTING:</b> All Federal Contract Information attached to this Purchase Order or RFQ is regulated by FAR 52.204-21. Federal contract information <i>Terminology/Definitions</i> (a), <i>Safeguarding Requirements</i> (b), and <i>Subcontracts</i> (c) as specified within this FAR are applicable with respect to the information systems employed by AMETEK, Inc. external providers (e.g., subcontractors supplying products, processes or services). This clause shall also be flowed down by first-tier suppliers to all external providers within the AMETEK supply chain.</p> <p>In the event that a “<i>cyber incident</i>’ or “<i>compromise</i>” of any Controlled Unclassified Information (CUI) occurs, the incident shall be reported to the DoD as well as Pacific Design Technologies, Inc. (PDT) in accordance with the applicable requirements of DFARS Clause 252.204-7012.</p> <p>Specification NIST 800-171 has been incorporated within this clause to supplement the FAR 52.204-21 requirement as an extension to non-federal systems/organizations. Pacific Design Technologies, Inc. is required to flow down these requirements to all external providers to ensure adequate and appropriate controls are in place to safeguard and protect the confidentiality of Controlled Unclassified Information (CUI). The security requirements apply only to system components of nonfederal systems that process, store or transmit CUI, or that provide security protection for such components (e.g., System components include mainframes, workstations, servers; input and output devices; network components; operating systems; virtual machines and applications).</p>
P005	<p><b>DISCLOSURE OF INFORMATION:</b> The documents attached to this Purchase Order or RFQ are regulated by the following:</p> <p><i>WARNING: This document contains technical data subject to the international Traffic in Arms Regulation (/TAR) or the Export Administration Regulation (EAR) of 1979. This data may not be exported, released, or disclosed to foreign nationals without the requisite Export License and/or a Technical Assistance Agreement. A violation of these export laws is subject to severe criminal penalties. Include this notice with any reproduction portion of these documents.</i></p>
P006	<p><b>METALLIC RAW MATERIALS:</b> Supplier shall ensure that the metallic raw materials (plate, sheet, bar, rod, tube, etc) originate from a country that is listed in the FAA Bilateral Agreements in <a href="https://www.faa.gov/aircraft/air_cert/international/bilateral_agreements/baa_basa_listing">https://www.faa.gov/aircraft/air_cert/international/bilateral_agreements/baa_basa_listing</a></p>
P007	<p><b>DFAR 252.225-7003 – REPORT OF INTENDED PERFORMANCE OUTSIDE THE UNITED STATES AND CANADA – SUBMISSION WITH OFFER:</b> The supplier shall comply with DFAR 252.225-7003.</p>
P008	<p><b>DFAR 252.225-7008 - RESTRICTION ON ACQUISITION OF SPECIALTY METALS:</b> The supplier shall comply with DFAR 252.225-7008.</p>
P009	<p><b>DFAR 252.225-7009 - RESTRICTION ON ACQUISITION OF CERTAIN ARTICLES CONTAINING SPECIALTY METALS:</b> The supplier shall comply with DFAR 252.225-7009.</p>

P010	<b>DFAR 252.246-7007 - CONTRACTOR COUNTERFEIT ELECTRONIC PART DETECTION AND AVOIDANCE SYSTEM:</b> The supplier shall comply with DFAR 252.246-7007.
P011	<b>DFARS 252.246.7008 – SOURCES OF ELECTRONIC PARTS:</b> The supplier shall comply with DFAR 252.246-7008.
P012	<b>DFAR 252.225-7048 - EXPORT-CONTROLLED ITEMS:</b> The supplier shall comply with DFAR 252.225-7048.
P013	<p><b>FURNACE INSTRUMENT CALIBRATION:</b> Supplier shall calibrate the PVT aluminum vacuum furnace instrumentation monthly at 1040°F, 1080°F, 1120°F, and calibrate the IPSEN stainless steel vacuum furnace instrumentation semi-annually at 1780°F, 1990°F, 2200°F, and the following:</p> <ul style="list-style-type: none"> <li>• All instruments shall be calibrated in accordance with SAE AMS 2750, latest revision and ISO/IEC 17025. Instruments shall be calibrated whenever repairs or modifications are made to them.</li> <li>• Instruments shall be calibrated in accordance with AMS2750, Table 7 and shall be traceable to NIST.</li> <li>• When any documented modification offsets are used in production, the reading of the instrument being calibrated shall be corrected algebraically.</li> <li>• Calibration of control, recording and over-temp instruments shall be performed on each channel in use that can be altered or adjusted individually, or on each group of channels that can be altered or adjusted as a group.</li> <li>• All active channels of multi-channel digital recording instruments shall be calibrated. Channels not in use shall be identified to prevent unintentional use.</li> <li>• The timing function for all digital recording instruments and data acquisition systems shall be calibrated at least annually and shall be accurate to <math>\pm 1</math> min/h. The calibration may be performed for a time <math>\leq 1</math> hour and the results converted to meet <math>\pm 1</math> min/h.</li> <li>• Instrument correction and/or modification offsets may be either internal (electronic) or external (manual) and shall be included in the calibration documentation.</li> <li>• The results of instrument calibration shall be documented. As a minimum, the documentation shall include: <ul style="list-style-type: none"> <li>• Unique identification of the instrument.</li> <li>• Make and model of the instrument calibrated.</li> <li>• Unique Identification of the test instrument used during calibration.</li> <li>• Identification of each sensor type in use (e.g., Type K, N, etc.) and form (e.g., V, mA, etc.) if the instrument is used for these scales.</li> <li>• Identification of location where signal was input (only required for measurement systems employing the alternate SAT).</li> <li>• Required calibration accuracy.</li> <li>• As-found data at each calibration point and as-left data if any adjustments are made, to include: <ul style="list-style-type: none"> <li>• Nominal test temperature.</li> <li>• Reading of the instrument being calibrated</li> <li>• Error or correction factor of test instrument (optional)</li> <li>• Error or correction factor of instrument under test (corrected or uncorrected for test instrument error when specified).</li> <li>• Correction and modification offsets as-found and as-left in accordance with AMS2750, Section 3.2.6.</li> <li>• Instrument calibration pass or fail statement.</li> <li>• Any limitations or restrictions of the calibration.</li> <li>• Date the calibration was performed.</li> <li>• Due date of the next calibration.</li> <li>• Statement of traceability to NIST or other internationally recognized standards organization.</li> <li>• Identification of the technician who performed the calibration.</li> <li>• Identification of the calibration agency if calibration is not performed internally.</li> <li>• Approval of an authorized agent for the calibration agency if not performed internally.</li> </ul> </li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• User quality organization approval.</li> </ul>
P014	<p><b>FURNACE SYSTEM ACCURACY TESTING (SAT):</b> Supplier shall perform initial and periodic system accuracy testing, using SAT comparison method, in accordance with AMS2750, latest revision and the following:</p> <p>PVT FURNACE: Perform initial/annual periodic SAT at 1040 F and 1120 F, on an annual basis. Perform periodic SAT at 1040 F, on a weekly basis, then biweekly basis per AMS 2750, Table 11.</p> <p>IPSEN FURNANCE: Perform initial/annual periodic SAT at 1780 F, 1900 F, 2200 F, on an annual basis. Perform periodic SAT at 1780 F, on a monthly, then quarterly basis per AMS 2750, Table 11.</p> <ul style="list-style-type: none"> <li>• Provider of SAT services shall have a quality system accredited to ISO/IEC 17025. The scope of accreditation shall include field services.</li> <li>• The SAT shall be performed on all control and recording systems required by the applicable instrumentation type.</li> <li>• The SAT shall be performed using calibrated and independent SAT sensors meeting the requirements of AMS 2750, Table 1 and calibrated and independent field test instruments meeting the requirements of AMS 2750, Table 7.</li> <li>• The maximum allowable SAT difference shall be defined by the furnace class as shown in AMS2750, Table 11.</li> <li>• The difference calculated between the readings of the sensor system being tested (instrument/extension wire/sensor) and the corrected reading of the SAT sensor and SAT instrument (after the SAT sensor and SAT instrument correction factors have been applied algebraically) shall be documented as the SAT difference.</li> <li>• The temperature readings from the process instrument and sensor being compared with the SAT sensor and field test instrument shall be the temperature reading, read or recorded during production heat treatment. Certain offsets, if consistently applied during production heat treatment in accordance with AMS2750, Section 3.4.4.4 and supported by documented procedures, shall be algebraically applied to the system being tested.</li> <li>• SAT report shall identify which method was used to fulfill the SAT requirement; Comparison SAT, Alternate SAT, SAT Waiver.</li> <li>• It is not permitted to apply modification offsets to achieve an acceptable SAT.</li> <li>• If the calculated SAT difference exceeds the allowable difference, as defined in Table 11, the failure shall be documented appropriately.</li> <li>• The results of the SAT (Comparison Method) shall be documented. At a minimum, the documentation for each sensor system tested shall include: <ul style="list-style-type: none"> <li>• Identification of the sensor system being tested.</li> <li>• Identification of the SAT sensor and depth of insertion when Type K or Type E is reused.</li> <li>• Identification of SAT instrument.</li> <li>• Date and time of the SAT.</li> <li>• Set point of the thermal processing equipment during the SAT. The test temperature shall be documented as the SAT set point for thermal processing equipment that does not have a set point temperature.</li> <li>• Observed control or recording instrument readings and recordings.</li> <li>• Observed SAT instrument readings.</li> <li>• SAT sensor correction factor.</li> <li>• SAT instrument correction factor.</li> <li>• Corrected SAT instrument reading.</li> <li>• Calculated SAT difference (control and recording instrument readings minus the corrected SAT instrument reading).</li> <li>• As-found and as-left correction and/or modification offsets if used during production.</li> <li>• SAT difference pass or fail statement.</li> <li>• Identification of the technician who performed the SAT.</li> <li>• Identification of the agency if SAT is not performed internally.</li> <li>• Approval of an authorized agent for the calibration agency if not performed internally.</li> <li>• User quality organization approval.</li> </ul> </li> </ul>

P015	<p><b>FURNACE TELEVAC CALIBRATION:</b> Supplier shall calibrate in accordance with AMS2769, latest revision, and the following:</p> <p>The results of instrument calibration shall be documented on a Certificate of Calibration, which shall include, as a minimum, the following:</p> <ul style="list-style-type: none"> <li>• Unique identification of the instrument.</li> <li>• Make and model of the instrument calibrated.</li> <li>• Unique Identification of the test instrument used during calibration.</li> <li>• Identification of each sensor type in use (e.g., Type K, N, etc.) and form (e.g., V, mA, etc.) if the instrument is used for these scales.</li> <li>• Identification of location where signal was input (only required for measurement systems employing the alternate SAT).</li> <li>• Required calibration accuracy.</li> <li>• As-found data at each calibration point and as-left data if any adjustments are made, to include: <ul style="list-style-type: none"> <li>• Reading of the instrument being calibrated</li> <li>• Error or correction factor of test instrument (optional or when specified by the customer.</li> <li>• Error or correction factor of instrument under test (corrected or uncorrected for test instrument error when specified).</li> </ul> </li> <li>• Correction and modification offsets as-found and as-left in accordance with AMS2750, Section 3.2.6.</li> <li>• Instrument calibration pass or fail statement.</li> <li>• Any limitations or restrictions of the calibration.</li> <li>• Date the calibration was performed.</li> <li>• Due date of the next calibration.</li> <li>• Statement of traceability to NIST or other internationally recognized standards organization.</li> <li>• Identification of the technician who performed the calibration.</li> <li>• Identification of the calibration agency if calibration is not performed internally.</li> <li>• Reference IEC/ISO 17025 accreditation.</li> </ul>
P016	<p><b>FURNACE TEMPERATURE UNIFORMITY SURVEY (TUS) – PVT ALUMINUM VACUUM FURNACE:</b> Supplier shall perform initial and periodic temperature uniformity surveys in accordance with AMS2750, latest revision and the following:</p> <p>NOTE: PVT aluminum vacuum furnace is designated as a Class 1 furnace per AMS2750.</p> <ul style="list-style-type: none"> <li>• Provider of TUS services shall have a quality system accredited to ISO/IEC 17025. The scope of accreditation shall include field services.</li> <li>• The TUS shall be performed using calibrated and independent TUS sensors meeting the requirements of AMS 2750, Table 1 and calibrated and independent TUS instruments meeting the requirements of AMS 2750, Table 7.</li> </ul> <p>Note: Per Table 7, Field instruments (TUS/SAT) instruments;</p> <p>TUS Interval = Monthly, then Quarterly per AMS 2750, Table 15.</p> <p>Accuracy = +/- 1.0 °F (0.6 °C) or +/- 0.1% of temperature reading, whichever is greater</p> <ul style="list-style-type: none"> <li>• Uniformity tests of furnaces shall be conducted using a typical production atmosphere or vacuum level. Perform Initial TUS' at 1040 and 1120 Fahrenheit and Periodic TUS' at 1040 Fahrenheit. All tests of furnace or baths shall be conducted using calibrated thermocouples.</li> <li>• The results of the TUS shall be documented, objectively. At a minimum, the TUS documentation shall include: <ul style="list-style-type: none"> <li>• Furnace identification name or number.</li> <li>• Identification of TUS as initial or periodic</li> <li>• TUS instrument unique identification number.</li> <li>• TUS sensor(s) batch or lot number.</li> <li>• TUS set point temperatures.</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• Control instrument tuning constants.</li> <li>• TUS sensor calibration report.</li> <li>• TUS instrument calibration report.</li> <li>• TUS, control, and recording sensor location identification required by the applicable instrumentation type including a detailed diagram, description, or photograph(s) of any load, rack, or fixture used.</li> <li>• The atmosphere used.</li> <li>• Time and temperature data from all recorded sensors required for the instrument type for all qualified work zones surveyed.</li> <li>• Correction factors for the TUS sensors and TUS instrument at each TUS temperature. The TUS instrument correction factors shall be stated even when the correction factors have been electronically applied to the TUS instrument to correct the TUS instrument temperature readings.</li> <li>• As-found and as-left correction and/or modification offsets if used during production.</li> <li>• Corrected or uncorrected (if documented) readings of all TUS sensors at each TUS temperature. TUS readings shall be identified as corrected or uncorrected.</li> <li>• Load condition, i.e., empty, with a rack, or with a load.</li> <li>• TUS start date and time (when temperature data collection began).</li> <li>• TUS end date and time (when temperature data collection ended).</li> <li>• The results of hottest and coldest TUS and furnace recording sensor relocation analysis for Type A and C instrumentation, as applicable.</li> <li>• Traverse speed (s) or shaker frequency, and qualified work zone length for the TUS performed on continuous and semi-continuous furnaces, as applicable.</li> <li>• TUS pass or fail statement.</li> <li>• When applicable, documentation of any control, recording, or TUS sensor failures.</li> <li>• Summary of the hottest and coldest corrected TUS readings at each test temperature during the minimum soak period compared to the TUS requirement.</li> <li>• Identification of the technician performing the TUS.</li> <li>• Identification of the agency if TUS is not performed internally.</li> <li>• Approval of an authorized agent for the calibration agency if not performed internally.</li> <li>• User quality organization approval (signature block)</li> <li>• Vacuum level reading at time of TUS</li> <li>• Instrument correction and/or modification offsets, either internal (electronic) or external (manual), as applicable</li> </ul>
P017	<p><b>FURNACE TEMPERATURE UNIFORMITY SURVEY (TUS) – IPSEN STAINLESS STEEL VACUUM FURNACE:</b> Supplier shall perform initial and periodic temperature uniformity surveys in accordance with AMS2750, latest revision and the following:</p> <p>NOTE: IPSEN stainless steel vacuum furnace is designated as a Class 5 furnace per AMS2750.</p> <ul style="list-style-type: none"> <li>• Provider of TUS services shall have a quality system accredited to ISO/IEC 17025. The scope of accreditation shall include field services.</li> <li>• The TUS shall be performed using calibrated and independent TUS sensors meeting the requirements of AMS 2750, Table 1 and calibrated and independent TUS instruments meeting the requirements of AMS 2750, Table 7.</li> </ul> <p>Note: Per Table 7, Field instruments (TUS/SAT) instruments;  TUS Interval = Quarterly, then Semi-Annually, per AMS 2750, Table 15.  Accuracy = +/- 1.0 °F (0.6 °C) or +/- 0.1% of temperature reading, whichever is greater</p> <ul style="list-style-type: none"> <li>• Uniformity tests of furnaces shall be conducted using a typical production atmosphere or vacuum level. Perform Initial TUS' at 1780, 1900 and 2200 Fahrenheit and Periodic TUS' at 1900 Fahrenheit and Annual Periodic TUS at 1780 and 2200 Fahrenheit. All tests of furnace or baths shall be conducted using calibrated thermocouples.</li> <li>• The results of the TUS shall be documented, objectively. At a minimum, the TUS documentation shall include: <ul style="list-style-type: none"> <li>• Furnace identification name or number.</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• Identification of TUS as initial or periodic</li> <li>• TUS instrument unique identification number.</li> <li>• TUS sensor(s) batch or lot number.</li> <li>• TUS set point temperatures.</li> <li>• Control instrument tuning constants.</li> <li>• TUS sensor calibration report.</li> <li>• TUS instrument calibration report.</li> <li>• TUS, control, and recording sensor location identification required by the applicable instrumentation type including a detailed diagram, description, or photograph(s) of any load, rack, or fixture used.</li> <li>• The atmosphere used.</li> <li>• Time and temperature data from all recorded sensors required for the instrument type for all qualified work zones surveyed.</li> <li>• Correction factors for the TUS sensors and TUS instrument at each TUS temperature. The TUS instrument correction factors shall be stated even when the correction factors have been electronically applied to the TUS instrument to correct the TUS instrument temperature readings.</li> <li>• As-found and as-left correction and/or modification offsets if used during production.</li> <li>• Corrected or uncorrected (if documented) readings of all TUS sensors at each TUS temperature. TUS readings shall be identified as corrected or uncorrected.</li> <li>• Load condition, i.e., empty, with a rack, or with a load.</li> <li>• TUS start date and time (when temperature data collection began).</li> <li>• TUS end date and time (when temperature data collection ended).</li> <li>• The results of hottest and coldest TUS and furnace recording sensor relocation analysis for Type A and C instrumentation, as applicable.</li> <li>• Traverse speed (s) or shaker frequency, and qualified work zone length for the TUS performed on continuous and semi-continuous furnaces, as applicable.</li> <li>• TUS pass or fail statement.</li> <li>• When applicable, documentation of any control, recording, or TUS sensor failures.</li> <li>• Summary of the hottest and coldest corrected TUS readings at each test temperature during the minimum soak period compared to the TUS requirement.</li> <li>• Identification of the technician performing the TUS.</li> <li>• Identification of the agency if TUS is not performed internally.</li> <li>• Approval of an authorized agent for the calibration agency if not performed internally.</li> <li>• User quality organization approval (signature block)</li> <li>• Vacuum level reading at time of TUS</li> <li>• Instrument correction and/or modification offsets, either internal (electronic) or external (manual), as applicable</li> </ul>
P018	<p><b>WELDING GAS:</b> Supplier shall provide a Certificate of Conformance, which shall include the following:</p> <ul style="list-style-type: none"> <li>• Gas Type</li> <li>• Quantity/Volume</li> <li>• Material Specification</li> <li>• Gas Purity</li> <li>• Purchase Order Number</li> </ul>
P019	<p><b>WELDING WIRE:</b> Supplier shall provide a Certificate of Conformance, which shall include the following:</p> <ul style="list-style-type: none"> <li>• Size</li> <li>• Diameter</li> <li>• Form</li> <li>• Material Specification</li> <li>• Material Lot/Batch Number</li> <li>• Purchase Order Number</li> <li>• Quantity</li> </ul>

	<p>Notes:</p> <ol style="list-style-type: none"> <li>1. Material/Heat Treat certifications required with product.</li> <li>2. Material to be identified (embossed or flag tagged on one end (FTOE)). Material &lt; .062" shall be FTOE, material &gt;.062 shall be embossed every 6".</li> </ol>
P020	<p><b>WELDING ELECTRODES:</b> Supplier shall provide a Certificate of Conformance, which shall include the following:</p> <ul style="list-style-type: none"> <li>• Material Specification</li> <li>• Manufacturer's Lot/Batch Number</li> <li>• Nominal Type</li> <li>• Form</li> <li>• Quantity</li> <li>• Purchase Order Number</li> </ul> <p>Raw material composition/heat treat certificates required.</p>
P021	<p><b>INSPECTION, MEASURING, TESTING EQUIPMENT (IMTE):</b> Supplier shall provide a Certificate of Calibration and manufacturer's manuals/specifications. Calibration standards shall be traceable to National Institute of Standards and Technology (NIST).</p>

10.2 APPENDIX 2 – QUALITY CLAUSES

The following quality clauses are applicable, if referenced in the AMETEK Purchase/Repair Order.

Clause #	Requirement
Q001	<p><b>CALIBRATION SYSTEM:</b> The supplier's calibration system shall conform with the requirements of ANSI/NCSL Z540.3 or ISO 10012-1 and is subject to review and approval by AMETEK. Calibration standards shall be traceable to National Institute of Standards (NIST).</p>
Q002	<p><b>SOURCE SURVEILLANCE:</b> Source surveillance shall be conducted by AMETEK and/or its customer at the supplier's facilities or where designated in this contract prior to shipment, at no additional cost to AMETEK. Inspection/test of the articles defined in this contract shall be performed by the supplier and shall be subject to witness by AMETEK quality representative. The supplier shall contact the AMETEK source representative defined herein prior to the start of the fabrication/manufacturing maintenance activity so that mandatory in-process inspection/test points can be agreed upon. The supplier shall have documented evidence of their inspection/test performance available and present upon request. Required documentation for shipment must be completed and signed by the supplier's authorized quality representative and available for the AMETEK quality representative's review.</p>
Q003	<p><b>CERTIFICATION REQUIREMENT – FAA FORM 8130-3:</b> Supplier shall provide an FAA Form 8130-3 for each product or article provided, and the original document shall accompany each product or article shipment. When possible, the supplier shall provide an FAA Form 8130/EASA Dual Release document. See FAA Order 8130.21 for procedures for completion of FAA Form 8130-3.</p>
Q004	<p><b>CERTIFICATION REQUIREMENT – CERTIFICATE OF CONFORMANCE:</b> Supplier shall provide a Certificate of Conformance for each product or article provided, and the original document shall accompany each product or article shipment. The certificate shall include, as a minimum:</p> <ul style="list-style-type: none"> <li>• Part Number</li> <li>• Drawing Revision Number/Letter, as applicable</li> <li>• Supplier Name</li> <li>• Supplier Address</li> <li>• AMETEK Purchase Order Number</li> <li>• AMETEK Purchase Order Line Item Number, as applicable</li> <li>• Traceable Number (Serial/Batch/Lot Number), as applicable</li> </ul>

	<ul style="list-style-type: none"> <li>• Description of Work Performed</li> <li>• Quantity</li> <li>• Signature of Authorized Supplier Representative</li> <li>• Certification Date</li> <li>• Statement attesting that the materials furnished are in conformance with applicable requirements of the contract, drawings and specifications and that supporting documentation is on file and will be made available to AMETEK upon request</li> <li>• Evidence of Traceability from Original Equipment Manufacturer/Authorized Aftermarket Manufacturer, as applicable</li> </ul>
Q005	<p><b>SPECIAL PROCESS APPROVAL:</b> When special process specifications (e.g. heat treat, soldering, welding, anodizing, chemical film treatment, NOT, etc.) are a contract and/or drawing requirement, the supplier is responsible for maintaining a system to certify (either through 2<sup>nd</sup> Party or NADCAP) and control performance of special processes within their facility. In addition, all subcontracted special process sources shall be either NADCAP approved or have special process approval, in writing, by AMETEK. AMETEK approval of subcontracted special process sub-tier suppliers does not relieve the supplier of the responsibility for exercising those control measures necessary to ensure that work performed complies with applicable specification requirements.</p> <p>To view approved NADCAP-approved sources, follow this link:  <a href="https://www.eauditnet.com/eauditnet/ean/user/login.htm">https://www.eauditnet.com/eauditnet/ean/user/login.htm</a></p>
Q006	<p><b>SPECIAL PROCESS CERTIFICATION REPORT(S):</b> When the AMETEK purchase order requires special processing in accordance with specifications designated by AMETEK, the supplier and any sub-tier supplier performing special processes (i.e. soldering, cleaning, non-destructive examinations, plating, welding, brazing, etc.) shall utilize qualified procedures, personnel and equipment to do the work. The supplier shall provide AMETEK with certification that they utilized qualified procedures, personnel and equipment to perform the special process in accordance with the applicable special process specification. This certification shall include the number and revision of the applicable special process specification.</p>
Q007	<p><b>CONTRACT MAINTENANCE:</b> The supplier shall comply as follows:</p> <ul style="list-style-type: none"> <li>• FAA/EASA-Certificated suppliers shall provide Federal Aviation Administration Form 8130-3 in accordance with Quality Clause Q003.</li> <li>• Non-certificated suppliers shall provide a Certificate of Conformance in accordance with Quality Clause Q004.</li> <li>• The supplier, and any sub-tier supplier used by supplier shall possess a drug and alcohol testing program which in in compliance with FAA Regulation 14 CFR Part 120 and Department of Transportation (DOT) 49 CFR 40.</li> <li>• Supplier shall retain all records for a minimum of (5) years, and calibration records for a minimum of (2) years, or (2) complete calibration cycles, whichever is longer, unless otherwise specified in purchase/repair order requirements.</li> <li>• The supplier shall maintain and utilize a Foreign Object Debris/Damage (FOD) Prevention control program in accordance with Quality Clause Q015.</li> <li>• The supplier shall maintain and utilize a Handling, Preservation, and Packaging program in accordance with Quality Clause Q017.</li> </ul>
Q008	<p><b>REPAIR PART FABRICATION, REF. 14 CFR PART 43 – MAINTENANCE:</b> The supplier shall comply as follows:</p> <ul style="list-style-type: none"> <li>• FAA/EASA-Certificated suppliers shall provide Federal Aviation Administration Form 8130-3 in accordance with Quality Clause Q003.</li> <li>• Non-certificated suppliers shall provide a Certificate of Conformance in accordance with Quality Clause Q004.</li> <li>• In the event the vendor contracts/sub-contracts to a sub-tier vendor, an AMETEK approved vendor shall be utilized, unless written approval from AMETEK is provided. Vendor shall be responsible for all work contracted/subcontracted to sub-tier vendors and the flow down of all contractual requirements</li> </ul>

	<ul style="list-style-type: none"> <li>The supplier, and any sub-tier supplier used by supplier shall possess a drug and alcohol testing program which in in compliance with FAA Regulation 14 CFR Part 120 and Department of Transportation (DOT) 49 CFR 40.</li> <li>Supplier shall retain all records for a minimum of (5) years, and calibration records for a minimum of (2) years, or (2) complete calibration cycles, whichever is longer, unless otherwise specified in purchase/repair order requirements.</li> <li>The supplier shall maintain and utilize a Foreign Object Debris/Damage (FOD) Prevention control program in accordance with Quality Clause Q015.</li> <li>The supplier shall maintain and utilize a Handling, Preservation, and Packaging program in accordance with Quality Clause Q017.</li> </ul>
Q009	<b>MATERIAL CERTIFICATION/TEST REPORT(S):</b> One copy of raw material certifications and test reports indicating chemical composition and/or actual physical properties identifiable to each lot, batch or heat treat lot shall accompany each shipment, and shall be validated by an authorized supplier's representative, by either an inspection stamp or signature and title.
Q010	<b>TEST REPORT(S):</b> Actual functional test reports referencing contract number, supplier's name and address and/or independent laboratories' name and address, part number, part name, serial number if applicable, date and run time if applicable, must accompany each shipment to be delivered. An authorized supplier's representative shall validate these reports, by either an inspection stamp or signature and title.
Q011	<b>MATERIAL TRACEABILITY:</b> The supplier shall establish a system for the identification, traceability and control of materials, parts and assemblies from acquisition through fabrication, assembly, test and delivery. The system shall provide for the ready identification of suspect lots when individual items are found discrepant. Traceability must extend to original OEM / <b>OCM</b> .
Q012	<p><b>FIRST ARTICLE INSPECTION/REPORT:</b> Supplier shall perform first article inspection on products/services provided and shall provide a First Article Inspection Report in accordance with AS9102 - Aerospace First Article Inspection Requirement. The First Article Inspection process is intended to validate/verify a single production-representative item against the requirements of the item drawing. This includes all materials, processes and dimensional characteristics including the particular drawing revision.</p> <p>First article inspection is mandatory when any of the following conditions apply:</p> <ul style="list-style-type: none"> <li>A new part is being produced/processed by the supplier for the first time,</li> <li>The part has undergone revision change since previous first article approval,</li> <li>A lapse in production of &gt; (2) years, (this excludes existing material produced from previous production lot that can be traced to an AMETEK approved First Article Inspection Report,</li> <li>New/reworked tooling/fixtures are used in the production of a part,</li> <li>Facility has changed physical address location.</li> </ul> <p>Supplier shall provide copies of supporting documentation in support of First Article Inspection.</p>
Q013	<p><b>FINAL INSPECTION REPORT:</b> Supplier shall provide a (Final) Inspection Report with products manufactured/fabricated. The supplier shall perform 100% inspection of all drawing characteristics and record 100% of actual measurements in accordance with supplier's AQL sampling plan in accordance with ANSI/ASQC 21.4, or equivalent.</p> <p>An authorized supplier's Quality representative shall validate the report, by either an inspection stamp or signature, date and title.</p>
Q014	<p><b>CONSUMABLE MATERIALS:</b> Supplier shall provide a Certificate of Conformance for all consumable materials. The Certificate of Conformance shall include a statement attesting that the materials furnished are in conformance with applicable requirements of the Purchase Order.</p> <p>Supplier shall provide, or provide access to applicable product Tech Data Sheets and Safety Data Sheets.</p> <p>Time/temperature sensitive materials shall be identified with cure date, manufacturing date, expiration date, shelf life, etc. as it relates to the particular lot(s) being shipped. Both the</p>

	time/temperature sensitive material and accompanying documentation shall display this information. The outermost shipping box of temperature sensitive material must be marked to indicate temperature storage range. In addition, products having < 60% of specified shelf life shall not be furnished without prior written approval from AMETEK Purchasing department.
Q015	<b>ELECTROSTATIC SENSITIVE DEVICES (ESD):</b> This Purchase/Repair Order includes devices that are electrostatic sensitive. The supplier shall assure that devices delivered are appropriately identified and packaged to provide electrostatic protection.
Q016	<b>NON-DESTRUCTIVE TESTING (NDT):</b> The supplier shall ensure that all nondestructive testing/examination is performed by approved suppliers and qualified inspectors in accordance with applicable drawing/specification requirements and provide a report detailing the results of the examination. An authorized supplier's representative shall validate all inspection reports, by either an inspection stamp or signature and title. Copies of the examination results shall accompany the material being examined upon return to AMETEK.
Q017	<b>FOREIGN OBJECT DAMAGE (FOD) PREVENTION:</b> The supplier shall maintain a FOD control program assuring work is accomplished in a manner preventing foreign objects or material from entering and remaining in deliverable items. <ul style="list-style-type: none"> <li>Maintenance of the work area and control of tools, parts and materials shall preclude the risk of FOD incidents. Prior to closing inaccessible or obscured areas and compartments during assembly the supplier shall inspect foreign objects/materials. The supplier shall document and investigate all FOD incidents assuring elimination of the root cause.</li> </ul>
Q018	<b>CALIBRATION REPORT:</b> The supplier shall provide a calibration report/certification supporting the calibration services performed. The report/certification shall contain, as a minimum: <ul style="list-style-type: none"> <li>Measurement data.</li> <li>Statement certifying traceability to National Standards.</li> <li>Listing of standard(s) used to perform test(s) with last calibration performed date(s) and next calibration due dates.</li> <li>Name of supplier performing calibration of the standard(s) used in performance of test(s).</li> <li>Statement of measurement uncertainty and ambient environmental conditions (i.e., ambient temperature and humidity) at time of test(s).</li> </ul>
Q019	<b>HANDLING, PRESERVATION AND PACKAGING:</b> The supplier shall have an established system to ensure conformity and preservation of product during internal processing and delivery to AMETEK. This includes (as applicable) identification, handling, packaging, storage and protection. Preservation also applies to the constituent parts of a product. Preservation of product shall also include, where applicable in accordance with product specifications and/or applicable regulations, provisions for: <ul style="list-style-type: none"> <li>Cleaning,</li> <li>Prevention, detection and removal of foreign objects,</li> <li>Special handling for sensitive products,</li> <li>Marking and labeling including safety warnings,</li> <li>Special handling for hazardous materials.</li> </ul> <p>The use of loose fill materials in packaging for product being shipped to AMETEK is prohibited. In addition, the supplier shall ensure that any documentation required by the purchase order to accompany the product(s) is present at delivery and protected against loss and deterioration.</p> <ul style="list-style-type: none"> <li>Electronic submittal of the documentation package, in advance of the order shipment, is permitted with prior agreement by the AMETEK buyer.</li> <li>The Supplier agrees to produce these documents whenever specified on a AMETEK Purchase/Repair order in accordance with the applicable Quality Clause requirements.</li> </ul> <p>Failure to supply these documents with product shipment may result in delays in payment, product return as well as potential negative effect on the supplier's quality performance rating.</p>

Q020	<b>FAA DRUG AND ALCOHOL PROGRAM:</b> Supplier shall possess a drug and alcohol testing program which is in compliance with Federal Aviation Administration (FAA) Regulation 14 CFR Part 120 and Department of Transportation (DOT) 49 CFR 40. This requirement is applicable to, and shall be flowed down to, supplier's sub-tier suppliers.
Q021	<b>EYE EXAMINATIONS:</b> Supplier shall verify annual that inspectors performing visual inspections are compliant with near vision requirements such as Snellen 14/18, (20/25), Jaegar 2 at 14 inches or Ortho-Rater 8.
Q022	<p><b>PMA PARTS MANUFACTURING – GENERAL:</b> Supplier shall comply with the following:</p> <ul style="list-style-type: none"> <li>• Supplier shall have a document quality system in accordance with Section 4.1 of this document.</li> <li>• First Article Inspection Report shall be provided in accordance with Quality Clause Q012.</li> <li>• Conformity Inspection Report shall be provided in accordance with Quality Clause Q013.</li> <li>• Calibration system shall comply with Quality Clause Q001.</li> <li>• Certificate of Conformance shall be provided in accordance with Quality Clause Q004.</li> <li>• Products shall be identified in accordance with supplied design data.</li> <li>• Specific handling, storage, packaging, and shelf-life requirements may apply; see Purchase Order for requirements.</li> <li>• Handling, packing and preservation shall be in accordance with Quality Clause Q019.</li> <li>• Supplier shall segregate all approved, non-approved and nonconforming products.</li> <li>• Supplier shall retain all manufacturing records for a minimum of five (5) years and for at least ten (10) years for any product that is determined to be and identified as a critical component per 14 CFR Part 45.15.</li> <li>• All nonconforming product identified by the supplier shall be recorded and submitted to AMETEK for review and disposition. Supplier does not have Material Review Board (MRB) authorization. All dispositions shall be made by AMETEK MRB.</li> <li>• All nonconforming product dispositioned as scrap shall be returned to AMETEK for disposal.</li> <li>• Supplier shall FAA CMSO (MIDO) representatives access to the supplier, and supplier's sub-tier suppliers in accordance with Section 4.3 of this document. Failure to grant such access shall be cause for AMETEK to cease use of supplier.</li> <li>• Supplier shall notify AMETEK of any quality escapes.</li> <li>• Supplier shall submit any proposed design changes to AMETEK for approval in writing, prior to incorporation.</li> <li>• Supplier shall submit all changes to the supplier's manufacturing process to AMETEK, for review and approval.</li> <li>• Supplier shall submit all changes to the supplier's quality system that may affect inspection, conformity, or the airworthiness of the product/article.</li> <li>• When a delegated inspection is authorized and used, supplier shall provide a statement with the shipment denoting that delegation of inspection authority has been granted by AMETEK and that inspection was performed on behalf of AMETEK</li> <li>• Supplier shall notify AMETEK of any changes to processes, products or services, including changes to external vendors or location of suppliers and obtain AMETEK approval.</li> <li>• Acceptance of Purchase Order denotes that supplier is aware of its contribution to product or service conformity, product safety and the importance of ethical behavior.</li> <li>• Supplier shall notify AMETEK in writing of significant facility or organizational changes such as changes in company name, location, or senior quality personnel.</li> </ul>
Q023	<p><b>PMA PARTS MANUFACTURING – DIRECT SHIPMENT AUTHORITY:</b> Supplier has been authorized for direct shipment authority (see authorization letter) and shall comply with the following:</p> <ul style="list-style-type: none"> <li>• Direct shipment may only be authorized when: <ul style="list-style-type: none"> <li>• A source inspection is performed by AMETEK QA, or,</li> <li>• Inspected by supplier under a delegated inspection authority, issued by AMETEK QA.</li> <li>• AMETEK provides direct shipment authorization to the supplier, issues and maintains records for direct ship authorization and makes them available to the FAA CMSO (MIDO) representatives upon request.</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>Supplier is obligated to: <ul style="list-style-type: none"> <li>Direct ship the product/article,</li> <li>Comply with any special customer requirements accepted by AMETEK and flowed down</li> <li>Maintain evidence that the supplier has direct ship authorization from AMETEK.</li> <li>Maintain evidence of direct shipment on behalf of AMETEK.</li> <li>Provide a signed direct ship declaration with the shipment.</li> <li>Provide signed/stamped statement of conformance certifying that the product/article conforms to approved data, with the shipment.</li> <li>Provide traceability of the shipment to the customer.</li> <li>Provide evidence with shipment that acceptance or inspection has been accomplished by AMETEK or through delegated inspection authority.</li> <li>When a delegated inspection is utilized, provide a statement with the shipment that delegation of inspection authority has been granted by AMETEK and that inspection was performed on behalf of AMETEK.</li> </ul> </li> </ul>
Q024	<b>PMA PARTS MANUFACTURING – DELEGATED INSPECTION AUTHORITY:</b> Supplier has been authorized for delegated inspection authority (see authorization letter) and shall provide a statement with the shipment that delegated inspection has been granted by AMETEK and that inspection was performed on behalf of AMETEK.
Q025	<b>PMA PARTS MANUFACTURING – SOURCE INSPECTION:</b> Source inspection shall be performed by AMETEK quality inspection personnel prior to shipment to AMETEK or customer. Supplier shall notify AMETEK Quality Department to arrange source inspection.
Q026	<b>OUTSIDE PROCESSING – OEM PRODUCTS:</b> Supplier shall comply with the following: <ul style="list-style-type: none"> <li>Supplier shall have a document quality system in accordance with Section 4.1 of this document.</li> <li>FAA/EASA-Certificated suppliers shall provide Federal Aviation Administration Form 8130-3 in accordance with Quality Clause Q003.</li> <li>Non-certificated suppliers shall provide a Certificate of Conformance in accordance with Quality Clause Q004.</li> <li>Supplier shall retain all records for a minimum of (10) years, and calibration records for (2) years or two complete calibration cycles, whichever is longer, unless otherwise specified on Purchase Order.</li> <li>Supplier shall refer to Purchase Order for any special requirements related to technical data, approval of products, services, methods, processes, and equipment.</li> </ul>
Q027	<b>RECORDS RETENTION – 5 YEARS:</b> Supplier shall retain all records for a minimum of (5) years.
Q028	<b>RECORDS RETENTION – 10 YEARS:</b> Supplier shall retain all records for a minimum of (10) years.
Q029	<b>RECORDS RETENTION – 15 YEARS:</b> Supplier shall retain all records for a minimum of (15) years.
Q030	<b>SAFETY MANAGEMENT SYSTEM:</b> Supplier shall implement and utilize a product safety management system which complies with FAA 14 CFR Part 5.

### 10.3 APPENDIX 3 - AMETEK CUSTOMER REQUIREMENTS

The following AMETEK customer requirements are applicable and shall be complied with, if referenced in the AMETEK Purchase/Repair Order. Contact AMETEK for copies of these requirements, if applicable and needed.

Clause #	Requirement
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C001	<b>COLLINS ASQR-01 – SUPPLIER QUALITY SYSTEM REQUIREMENTS:</b> The supplier shall comply with ASQR-01, as applicable.
C002	<b>COLLINS ASQR-02 – SUPPLIER QUALITY SYSTEM REQUIREMENTS FOR MAINTENANCE SERVICE ORGANIZATIONS:</b> The supplier shall comply with ASQR-02, as applicable.
C003	<b>COLLINS COL-ASQR-PRO-0003-02 – SUPPLIER QUALITY REQUIREMENTS:</b> The supplier shall comply with COL-ASQR-PRO-0003-02, as applicable.
C004	<b>COLLINS (HAMILTON SUNDSTRAND) HSM17 – SUPPLIER QUALITY REQUIREMENTS:</b> The supplier shall comply with HSM17, as applicable.
C005	<b>SAFRAN GRP-0087 – REQUIREMENTS FOR EXTERNAL SUPPLIERS:</b> The supplier shall comply with GRP-0087, as applicable.
C006	<b>LOCKHEED MARTIN APPENDIX QX – SUPPLIER QUALITY REQUIREMENTS:</b> The supplier shall comply with APPENDIX QX, as applicable.
C007	<b>DEHAVILLAND AIRCRAFT CANADA DQD 4.6-40 – QUALITY REQUIREMENTS FOR SUPPLIERS:</b> The supplier shall comply with DQD 4.6-40, as applicable.
C008	<b>PRATT &amp; WHITNEY MILITARY PWMESO-QSP 3.1: SUPPLIER QUALITY REQUIREMENTS:</b> The supplier shall comply with PWMESO-QSP 3.1, as applicable.
C009	<b>PRATT &amp; WHITNEY PWSO 5.1.1 L3 – SUPPLIER QUALITY REQUIREMENTS:</b> The supplier shall comply with PWSO 5.1.1 L3, as applicable.
C010	<b>BAE SYSTEMS BAE-JSF-QMS-141-03-DV – SUPPLEMENTARY QUALITY REQUIREMENTS FOR SUPPLIERS TO THE F-35 LIGHTNING II PROGRAM:</b> The supplier shall comply with BAE-JSF-QMS-141-03-DV, as applicable.
C011	<b>ONTIC PUF-101-3 – SUPPLIER QUALITY ASSURANCE REQUIREMENTS MANUAL:</b> The supplier shall comply with PUF-101-3, as applicable.
C012	<b>DERCO QA 100-102 – SUPPLIER QUALITY MANUAL:</b> The supplier shall comply with QA 100-102, as applicable.
C013	<b>AIR FRANCE/KLM MNT-FORM-0382 – AF/KLM E&amp;M QUALITY REQUIREMENTS:</b> The supplier shall comply with MNT-FORM-0382, as applicable.

## 11.0 FORMS

FAA Form 8130-3      Authorized Release Certificate