

		Nota Técnica de Compras			Página 1 de 1	
		Supplier Quality Requirements (SQR) NT-COM -02			Version:	41
					Date:	12-Aug-26
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TICO ELECTRONICS SUPPLIER QUALITY CLAUSES						
Quality Clause #	Name	Quality Requirement	APLICABILITY			
			AEROSPACE	NON-AEROSPACE		
01	Quality System	Quality System Requirements – Suppliers shall maintain a quality management system that, at a minimum, complies with the latest revision of ISO 9001 applicable at the time of the Purchase Order. When compliance with and/or certification to AS9100 or ISO 9001 is specified by Tico Electronics, the supplier shall notify the Tico Electronics Buyer in writing within five (5) business days of any change in quality system status, including changes to the scope of certification or approval, or the addition or withdrawal of third-party or regulatory quality approvals. Loss of certification, or failure to notify Tico Electronics of a loss of certification, may result in disapproval of the supplier.	X	X		
02	Special Processing	For the purposes of this quality clause, the term "supplier" applies equally to prime suppliers and their subcontractors. All special processes required by a government, ASTM, or Tico Electronics process specification shall be performed only by NADCAP-approved and/or Tico Electronics-approved suppliers. This requirement applies to, but is not limited to, soldering, welding, brazing, heat treating, magnetforming/swaging, plating/coating, cleaning/etching, passivation, electropolishing, acid picking, impregnating, bonding, high-speed balancing, glass sealing, shot peening, bead blasting, silk screening, EDM, waterjet cutting, painting, magnetic particle inspection, penetrant inspection, X-ray/N-ray inspection, chemical processing, chemical cleaning, nondestructive testing (NDT), ion vapor deposition (IVD), high-velocity oxygen fuel (HVOF), and other special coatings. Personnel performing special processes shall have appropriate and valid training or process certifications, as applicable. The supplier is responsible for obtaining, maintaining, and understanding all applicable specifications. If special processing is subcontracted, the prime supplier shall obtain written approval from Tico Electronics for the selected subcontractor before processing begins. All Tico Electronics Purchase Order requirements applicable to the prime supplier shall be flowed down to the subcontractor. For all processes required by the Purchase Order and performed by the supplier or a sub-tier supplier, the supplier shall provide the original certification/test report, or an exact copy issued by the supplier or sub-tier supplier that performed the process.	X			
03	Flow Down of Requirements	Tico Electronics suppliers shall flow down all applicable quality assurance requirements specified in the Purchase Order, including applicable customer requirements, to their sub-suppliers.	X	X		
04	Right of Entry	Representatives of Tico Electronics, its customers, and applicable regulatory authorities shall have access to the supplier's facilities and any other facilities involved in fulfilling the Purchase Order. Such access shall include relevant procedures, practices, processes, documents, and records related to quality assurance, quality control, and configuration control. The supplier shall notify the Tico Electronics Buyer in writing of significant facility or organizational changes, including changes to the company name, location, or senior quality management. Any change in supplier facility location shall require a new First Article Inspection for affected parts. Tico Electronics reserves the right to verify the quality of work, records, and material and to audit compliance with applicable requirements. Such visits do not preclude subsequent rejection of product and do not relieve the supplier of responsibility for product conformity and integrity.	X	X		
05	Record Retention	Suppliers shall retain quality records for a minimum of fifteen (15) years from the date of shipment, unless a longer retention period is specified. If original records are converted to electronic images, the method used to transfer and retain the records shall comply with applicable regulatory requirements, including FAR 21, as applicable. Quality records include, but are not limited to: Certificates of Conformance, test reports, raw material certifications, special process certifications, First Article Inspection Reports (FAIRs), route cards/travelers, and calibration records. Records shall be made available to Tico Electronics upon request at no additional cost. Records shall be appropriately identified and protected against deterioration, damage, loss, and unauthorized access. Records containing sensitive information, such as design details, proprietary information, or ITAR-controlled information, shall be destroyed using irreversible methods appropriate to the media, such as shredding or secure electronic erasure.	X	X		
06	Key Characteristics / Inspection Personnel	The supplier shall establish a process control plan that identifies product and process key characteristics to be monitored during manufacturing, including measurement methods and reaction plans for potential nonconforming conditions. The supplier shall provide a copy to the Tico Electronics Quality representative upon request or as required by the Purchase Order. When key characteristics are identified, the supplier shall establish and maintain appropriate statistical controls. If Gauge R&R is required, the supplier shall notify Tico Electronics of any change affecting the applicable measurement system.	X	X		
07	First Article Inspection	Suppliers certified to ISO 9001 and/or AS9100 shall provide a First Article Inspection Report (FAIR) using the latest applicable revision of the AS9102 form. The FAIR and the first article part shall be packaged separately, clearly identified, and shipped with the production parts on the first delivery of a new lot. Suppliers unfamiliar with FAI preparation may request assistance from Tico Electronics. The supplier FAIR shall, at a minimum: 1. Identify the Tico Electronics part number, part revision, and Purchase Order number. 2. List all drawing characteristics, applicable tolerances, and notes. 3. Provide objective evidence of conformity for all applicable requirements, including material and processes. 4. Record each measured result or verified condition. 5. Identify the calibrated gauge/tool and serial number used for each applicable characteristic. Tico Electronics reserves the right to witness the inspection and/or perform spot checks to verify the reported data. For subsequent shipments from the same lot, a copy of the original FAIR is acceptable unless otherwise specified by Tico Electronics.	X	X		
08	Nonconforming Product	Suppliers shall identify, segregate, and disposition nonconforming product in accordance with their documented procedures. Only product that conforms to specified requirements shall be shipped to Tico Electronics. For products under Tico Electronics design control, Use-As-Is or Repair dispositions require written authorization from Tico Electronics prior to shipment. Tico Electronics does not grant Material Review Board (MRB) authority to suppliers unless such authority is expressly granted in writing by Tico Electronics Quality Engineering. Tico Electronics reserves the right to audit compliance. Reworked product shall be re-inspected and/or tested, as applicable, before shipment to Tico Electronics.	X	X		
09	Counterfeit Material – Traceability	All parts, materials, and assemblies (electrical, mechanical, and raw material) incorporated into hardware delivered to Tico Electronics shall be procured directly from the Original Component Manufacturer (OCM), Original Equipment Manufacturer (OEM), or an OCM/OEM-authorized distributor. If direct procurement is not possible, the supplier shall submit a deviation/concession request to the Tico Electronics Quality Department for approval. The applicable Certificate of Conformance (CoC) shall provide the required traceability.	X	X		
10	Product Conformity and Product Safety	Suppliers shall ensure that products and services conform to all specified requirements and that product safety requirements are identified, understood, and effectively controlled. Suppliers shall communicate applicable product safety and conformity requirements to relevant personnel and sub-tier suppliers and shall promptly report any condition that may affect product safety or conformity to Tico Electronics.	X			

11	Ethical Behavior	Contributions to Product and Service Conformity, Safety, and Ethical Behavior – Products and services supplied to Tico Electronics may be used in mission-critical applications where supplier conformity can affect the safety and well-being of people. Suppliers shall communicate the importance of product conformity, product safety, and ethical behavior to their employees and sub-tier suppliers and ensure an appropriate level of control. Personnel shall be aware of and follow applicable ethical behavior requirements, including the code of conduct, fair treatment, employee recognition, confidential reporting mechanisms, protection of anonymity, and a no-blame culture.	X	X
12	FOD	The supplier shall maintain a Foreign Object Debris (FOD) control program to ensure that work is performed in a manner that prevents foreign objects or materials from entering, remaining in, or contaminating deliverable products. At a minimum, the FOD program shall include: • A documented FOD prevention and control procedure. • A designated person responsible for implementing the FOD prevention program. • Training for personnel in FOD recognition and response, with training records available upon request. • A documented FOD training program. • Documentation and investigation of FOD incidents, including root-cause elimination. • Housekeeping practices that prevent FOD incidents. • Control of tools, parts, and materials to prevent FOD incidents. • Maintenance of tooling, jigs, fixtures, test equipment, and handling devices in a clean and serviceable condition. • Assessment of proposed process changes for potential FOD risks. • Inspection of inaccessible or obscured areas before they are closed during assembly and packaging. • Access for Tico Electronics to conduct inspections and/or audits to verify that the supplier's FOD control program is documented, implemented, and effective. Suppliers are encouraged to expand and tailor their FOD program to the characteristics and risks of their products and processes.	X	X
13	Certificate of Conformance	The Certificate of Conformance (CoC) shall be provided with each shipment to Tico Electronics. The CoC is a quality record and shall include, at a minimum: • Tico Electronics Purchase Order (PO) number. • Supplier name and address. The exact address from which the material was obtained shall be identified. • Quantity. The quantity stated on the CoC shall match the quantity shipped to Tico Electronics. • Tico Electronics part number specified on the PO. • Manufacturer part number and drawing revision, when applicable. • Material description as specified on the PO. • Batch or lot number, when applicable. This is mandatory for products requiring lot traceability, including chemicals and shelf-life items. • Serial number, when applicable. • Date of manufacture, when applicable. • Shelf-life or expiration date, when applicable. • Applicable standard and revision, when required by the PO or engineering drawing. • Printed name and signature of the person authorized to sign the CoC. • Supplier/manufacturer address for custom-made products, when applicable.	X	X
14	Traceability to Material Manufacturer	When a material distributor is used within the supply chain, full traceability to the original material manufacturer is required, including the manufacturer's Certificate of Conformance. When multiple distributors are used, traceability shall be maintained through the entire supply chain to the original manufacturer.	X	X
15	Country of Origin (COO) Declaration	Suppliers shall provide the Country of Origin (COO) for all key components, materials, and subcomponents used in the supplied product with the first shipment. Acceptable documentation includes, but is not limited to: • Certificates of Origin. • Commercial invoices clearly identifying the COO. • Signed declarations from the supplier or sub-tier sources. • Commercial documents indicating origin, such as invoices or packing slips. • Internal supplier declarations or traceability records. • Supply chain documentation identifying manufacturing or sourcing locations. This information is required once unless a change occurs in the supply chain or source. When such a change occurs, updated COO information shall be submitted to Tico Electronics.	X	X
16	Smelt and Cast Origin Traceability	All metallic materials, including minerals and alloys, used to manufacture supplied items shall be traceable to their raw material origin. Each shipment shall be accompanied by mill certificates or equivalent records identifying, as applicable: • Primary country of smelt – the country where the raw mineral was initially processed into metal. • Secondary country of smelt – the country where further refining or reprocessing occurred, if applicable. • Country of most recent cast – the country where the final casting or solidification of the metal or alloy occurred. Acceptable documentation includes: • Mill certificates bearing the official stamp or identification of the supplying company. • Traceability audit reports from recognized organizations, such as the Responsible Minerals Initiative (RMI). • Signed declarations documenting the applicable metal supply chain and traceability. This requirement applies to all metals and alloys used in the manufacture of supplied parts, including, but not limited to, steel, aluminum, and other specialized alloys. Suppliers are responsible for maintaining the required traceability and providing the applicable documentation with each shipment.	X	X
17	Shelf-Life Items	Tico Electronics reserves the right to accept only products with at least 75% of their shelf life remaining upon receipt, considering a minimum of fifteen (15) days for transit to the destination. This requirement may be waived only with prior written authorization from the Tico Electronics Incoming/Receiving Department.	X	X
18	Special Handling	The supplier is responsible for ensuring that packaging adequately protects components during transportation, handling, and storage. Packaging shall be appropriate for the size, weight, and fragility of the components. For ESD-sensitive items and etched materials, appropriate handling and packaging precautions shall be maintained to ensure product conformity.	X	X
19	Fluxes and Solder Bars, Wire, or Solder Paste Requirements	For fluxes, compliance with J-STD-004 shall be explicitly stated on the Certificate of Conformance (CoC). For solder wire, bars, or other solder forms, compliance with J-STD-006 shall be referenced on the CoC, as applicable. When solder paste is specified, compliance with J-STD-005 shall be referenced on the CoC.	X	X
20	Chemicals	A current Safety Data Sheet (SDS/MSDS) and Technical Data Sheet (TDS) for each applicable chemical shall be provided with every shipment.	X	X
21	Compliance with Trinity / Bombardier Requirements	The end user for this product is Trinity Aerospace. Trinity Aerospace requires suppliers and manufacturers of its products to be approved on the applicable Bombardier supplier list. Suppliers shall verify compliance with the applicable approval requirements and notify Tico Electronics if they are unable to meet them. Reference: https://bombardierquality.service-now.com/sp?id=vendors	X	

22	Compliance with Moog Requirements	For Moog Aircraft products, compliance with SQR-1 shall be confirmed. When PCBs or CCAs are manufactured, compliance with S310 and S510 shall also be confirmed, as applicable.	X	
23	Compliance with RoHS & REACH	Suppliers shall comply with applicable Restriction of Hazardous Substances (RoHS) and Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) requirements when the end user is Celera Motion or when such compliance is specified in the Purchase Order or engineering drawing. All Celera Motion materials, including packaging materials, shall comply with applicable RoHS and REACH requirements. End users requiring RoHS compliance: Aerotech, Celera, Curtiss-Wright, Lisk, Ametek, Honeywell. End users requiring REACH compliance: Aerotech, AvtechTee, Celera, Curtiss-Wright, Lisk, Ametek, Honeywell. RoHS: Products supplied under this Purchase Order shall comply with applicable requirements of European Union Directive 2011/65/EU, as specified by the Purchase Order or applicable customer requirements. Suppliers shall provide evidence of RoHS compliance in an acceptable form, such as a statement on the Certificate of Conformance for each shipment or an applicable overarching certification. REACH: Suppliers shall comply with applicable requirements of European Union Regulation (EC) No. 1907/2006 (REACH), as specified by the Purchase Order or applicable customer requirements.	X	X
24	Traceability to DFARS Requirements	Material certifications and applicable test reports shall be provided to Tico Electronics for all designated domestic specialty metals subject to DFARS 252.225-7008 and DFARS 252.225-7009. Where required by the applicable DFARS clause, certifications shall clearly state that the material was melted in the United States or in an applicable qualifying country in accordance with the contractual requirements.	X	
25	Fraudulent Activity	Fraudulent activity includes, but is not limited to, deceit, trickery, dishonest practices, breach of confidence, or intentional misrepresentation for profit or to obtain an unfair or dishonest advantage. Examples include falsification of information, intentional omission, false statements, and deliberate misuse of qualified resources or certifications, qualifications, or authorizations. Fraudulent activity may directly affect the supplier's business relationship with Tico Electronics. If fraudulent activity is suspected or detected, Tico Electronics may initiate an investigation and notify the supplier's upper management. Depending on the nature and impact of the activity, legal action and/or civil or criminal penalties may apply.	X	X
26	Proprietary Information	All specifications, drawings, digital design data, and other information provided by Tico Electronics shall be treated as proprietary information. Tico Electronics customer drawings, specifications, procedures, and other proprietary information shall not be reproduced except as necessary for authorized internal use. Proprietary information shall be controlled to prevent use for purposes other than Tico Electronics contracted work and shall be returned or securely destroyed upon completion of the contracted work, as instructed by Tico Electronics.	X	X
27	Prohibited Material	Conflict Minerals – Materials supplied to Tico Electronics shall comply with applicable requirements of Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act and applicable customer requirements. This requirement is flowed down because certain Tico Electronics customers are publicly traded companies and may be required to identify and report the source of conflict minerals used in their manufacturing processes. Suppliers shall not knowingly supply products containing conflict minerals that were sourced in violation of applicable contractual, legal, or customer requirements. For purposes of this requirement, conflict minerals include gold, cassiterite (tin), wolframite (tungsten), and columbite-tantalite (tantalum), including their derivatives, as applicable.	X	X
28	Calibration System	Calibration of measuring and test equipment used for product acceptance shall be traceable to recognized national or international measurement standards, such as NIST or equivalent standards. The supplier shall establish and follow procedures for periodic calibration, certification, and maintenance of measurement and test equipment. The supplier shall also maintain a documented action process for equipment found to be out of calibration. At a minimum, the action process shall identify the affected equipment (including model, manufacturer, and serial number), condition found (including range/span and accuracy, as applicable), date the condition was identified, previous calibration date, notification details, and other relevant measurement information.	X	X
29	Subcontracting / Outsourcing	Suppliers shall not subcontract or outsource work involving Tico Electronics material unless specifically authorized in the Purchase Order or approved in writing by Tico Electronics. Requests to subcontract or outsource shall be submitted in writing to the Tico Electronics Buyer identified on the Purchase Order and to the Supplier Quality Engineer. If approved, the Purchase Order shall be amended, as applicable, to identify the subcontractor, facility address, contact information, and a brief description of the work or process to be performed. Tico Electronics reserves the right to recall any Purchase Order and associated material that a supplier is unable to effectively process in accordance with the Purchase Order requirements.	X	X

For fixtures and tooling, NT-COM-85, Section 7.7, shall be complied with.

Tico Electronics Customer	Tico Electronics Customer Special Requirements (Please review carefully and notify Tico Electronics if you are unable to meet any applicable requirement.)
Moog Components Group	N/A
Moog Aircraft	Suppliers shall comply with the Moog Clauses and Conditions applicable to the product, including SQR-1, S310 (PCB products), S510 (PCB products), and S384, as applicable. Reference: https://www.moog.com/content/dam/moog/literature/Corporate/Suppliers/SQR_1.pdf https://www.moog.com/suppliers/sqr.html
Moog Space and Defense	Suppliers shall comply with the Moog Clauses and Conditions applicable to the product. Reference: https://www.moog.com/suppliers/clauses.html
Moog Industrial	Suppliers shall comply with the Moog Clauses and Conditions applicable to the product, including SQR-1 and S377, as applicable. Reference: https://www.moog.com/content/dam/moog/literature/Corporate/Suppliers/SQR_1.pdf
Curtiss-Wright	Suppliers shall comply with the Curtiss-Wright Clauses and Conditions applicable to the product. Reference: https://sensors.curtisswright.com/About/Supply-Chain
Honeywell	Suppliers shall comply with the Honeywell Clauses and Conditions applicable to the product. https://authn.honeywell.com/idp/startSSO.ping?PartnerSpId=APP_PingFederate&ACSIdv=0&TargetResource=https%3A%2F%2Facc.honeywell.com&authn.appid=560
Ametek	Suppliers shall comply with the Ametek Clauses and Conditions applicable to the product. https://www.ametekaerospaceanddefense.com/supplierdocumentation/suppliers
Island	Suppliers shall comply with the Island Clauses and Conditions applicable to the product. Reference: https://islandcomponents.com
Skurka	Suppliers shall comply with the Skurka Clauses and Conditions applicable to the product. Reference: https://www.skurka-aero.com/wp-content/uploads/2024/05/QSP-P235_AB.pdf
Lisk	Suppliers shall comply with the Lisk Clauses and Conditions applicable to the product. Reference: https://www.gnlisk.com/supplier-resource-center/
Whippany	Suppliers shall comply with the Whippany Clauses and Conditions applicable to the product. Reference: https://www.whipactsys.com/vendor-supplier-information/
HarcosSenco	Suppliers shall comply with the HarcoSenco Clauses and Conditions (S1 and S2), as applicable. Reference: https://harcosenco.com/suppliers/
L3Harris	Suppliers shall comply with the applicable L3Harris Special Process Supplier requirements. Reference: https://www2.l3h.com/csw/suppliers/quality/special-process-suppliers.htm

Note: All changes introduced in this revision are shown in blue. If a requirement is removed, the change shall be identified in the box below. (Revision 38 includes in blue the changes made in Revision 37.)

Requirement(s) eliminated

Tico Electronics Copia No Controlada