

**QUALITY INSTRUCTION**

**SUPPLIER QUALITY ASSURANCE REQUIREMENTS RIDER**

<b>REV</b>	<b>DESCRIPTION OF CHANGE</b>	<b>APPROVAL</b>
NC	Initial Release	
A	Added 503 – Counterfeit part prevention	
B	Updated Quality provisions for all clauses	
C	Updated Quality provisions for all clauses. Added 511 for Energetics LAT report	
D	Updated General requirements and QP593 and added QP530	
E	Added QP 512, DFARS 252.233-7002 and DOD 4145.26M For All Thermal Battery Orders	
F	Added sampling plan per ANSI /ASQ Z 1.4-2008 to 501. Split 503 into A and B so 503A can be used for all material suppliers and 503B for electronic component suppliers	
G	Added All suppliers shall ensure that all of their employees are aware of their contribution to product or service conformity and their contribution to product safety to general requirements	
H	Added Purchased Product Packing List requirements	

**GENERAL REQUIREMENTS**

The following Quality Assurance requirements, with all their terms and conditions, become an integral part of the Purchase Order, to both the contracted supplier and the contracted supplier's sub-tier suppliers. All Quality requirements must be flowed down to supplier's sub-tier suppliers. Suppliers may not use any suppliers on TESP disqualified suppliers list.

The applicable quality program requirements are noted on the purchase order. No verbal instructions to deviate from the purchase order are allowed. All deviations shall

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require a change order; a legible Faxed copy of the change order or email from purchasing is considered adequate authority to proceed.

Teledyne Electronic Safety Products (TESP) rates suppliers based on the quality of their product, on-time delivery, quantity of documentation errors and the timeliness of responses to requests for corrective action. All requests for corrective action MUST be responded to within 15 days from receipt of reported non-conformance or receipt of part (which ever is later), with final response received no later than 30 days from receipt of report. An extension may be granted, when request to accommodate a detailed investigation. A continued history of substandard ratings may be cause for removal from the Teledyne Electronic Safety Products Approved Suppliers List. All suppliers shall ensure that all of their employees are aware of their contribution to product or service conformity and their contribution to product safety

**Record Retention** – The Supplier shall retain a set of all records required by this document either specifically or by reference. They shall be retained on file for at least ten (10) years after completion or termination of the contract. These records shall be made available to Teledyne Electronic Safety Products on request or unless otherwise specified at no charge.

**Purchased Product Packing List** - All vendors must include and identify the following on the packing list:

- Purchase Order Number
- Purchase Order Line Item (LI)
- Purchase Order Release (REL) if applicable

If the material is rejected, then the Packing List needs to include:

- Nonconformance Report (NCR) number or Return Manufacture Authorization (RMA)
- Purchase Order Line Item listed on the NCR
- Purchase Order REL, if applicable, listed on the NCR

**501 QUALITY SYSTEM**

Seller shall utilize their quality assurance procedures, workmanship standards, manufacturing procedures, processes, and engineering design guides as necessary for compliance with Seller's published equipment description and/or operational performance standards. Seller shall maintain inspection/test records on file for a minimum of ten years after last delivery against this purchase order. Product acceptance and related instructions for any product ordered by Teledyne Electronic Safety Products must be inspected at a minimum using sampling inspection plans per ANSI/ASQ Z1.4-2008.

**QUALITY INSTRUCTION****SUPPLIER QUALITY ASSURANCE REQUIREMENTS RIDER****502 F.O.D. (Foreign Object Debris/Damage)/F.O.E. (Foreign Object Elimination) Program**

The Supplier shall develop and maintain a Foreign Object Debris/Damage, Foreign Object Elimination (FOD/FOE) prevention program, including receiving inspection, final inspection, and the processes and controls at manufacturing areas to prevent introduction of foreign objects into any item delivered under this purchase order.

**503A Supplier Counterfeit Part Prevention**

Seller shall only deliver authentic components, devices, pieces, material, modules, assemblies, subassemblies, goods, or the like (hereafter "Parts") that are manufactured by or obtained from original equipment manufacturers (OEMs), original component manufacturers (OCMs), or OEM/ECM authorized distributors. Seller shall make available to Teledyne Electronic Safety Products, upon request, OEM or OCM documentation that authenticates and provides traceability of the Parts to the applicable OEM or OCM. Purchase of Parts from independent or unauthorized sources is not permitted under this purchase order without the prior written approval of Teledyne Electronic Safety Products Procurement Manager. Seller shall maintain policies, procedures, processes, or other such measures to ensure that any Parts sold or delivered by Seller to Buyer are authentic and not counterfeit. In the event that the Parts delivered under this Contract constitutes or includes Counterfeit Parts, SELLER shall, at its expense, promptly replace such Counterfeit Parts with genuine Parts conforming to the requirements of this contract.

**503B Supplier Counterfeit Part Prevention**

Notwithstanding any other provision in this Contract, SELLER shall be liable for all costs relating to the removal and replacement of counterfeit Parts, including without limitation Teledyne Electronic Safety Products costs of removing Counterfeit Parts of reinserting replacement Parts and of any testing necessitated by the reinstallation of Parts after counterfeit Parts has been exchanged. The remedies contained in this paragraph are in addition to any remedies Teledyne Electronic Safety Products may have at law, equity or under other provisions of this Contract.

Documentation must be provided with the parts that contain clear identification of the name and location of supply chain intermediaries from the manufacturer to the direct source of the product for the seller; and, where available, the manufacturer's batch identification for the electronic part(s), such as date codes, lot codes, or serial numbers. A completed Teledyne Electronic Safety Products form F555 Supplier certification of compliance (see 528) must also be completed at least annually.

**504 Change in Manufacturing Line, Facility Location or Process**

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Seller shall promptly notify Buyer's authorized procurement representative in writing within 10 days of intended or actual change to the manufacturing processes that may affect the quality of delivered goods and services. This includes changes to sellers and sellers subcontractors manufacturing facility location for the contracted goods or services, equipment, or processes for which the product was qualified.

**505 DFARS 252.246-7007 Contractor Counterfeit Electronic Part Detection and Avoidance System**

**Seller shall establish Counterfeit Electronic Parts Avoidance, Detection, Mitigation, and Disposition Policy and Plan, which must comply with clauses (a) through (e) of DFARS 252.246-007. This requirement must be flowed down to seller's sub-tier suppliers.**

**506 TESP SOURCE INSPECTION and/or CUSTOMER VERIFICATION OF SUBCONTRACTED PRODUCT**

TESP Inspection and/or TESP's Customer Representative shall perform Inspection/Test of product/services at the Supplier's facility, prior to each shipment. TESP reserves the right to conduct surveillance of work in progress, inspection and test at points selected by TESP or TESP's Quality Representative. TESP and/or TESP's Customer Representative also reserves the right to conduct final inspection and/or tests as necessary at source and/or destination to determine conformance to the Purchase Order. The supplier shall provide reasonable access to relative contract, design and specification data, and necessary equipment and space to perform such inspection/tests. When product is returned to the supplier, copies of any and or all rejections forms shall be presented to TESP's Source Inspector at the time the items are presented for acceptance. TESP reserves the right to waive source inspection at any time. However, such a waiver shall have no affect whatsoever on the Supplier's requirement to fully comply with the specifications and all of the other terms and conditions of the Contract/Purchase Order.

**507 GOVERNMENT SOURCE INSPECTION**

Government inspection is required prior to shipment from your plant. Upon receipt of this order, promptly furnish a copy to the Government representative who normally services your plant. If none, send to the nearest Army, Navy, Air Force or Defense Supply Agency office so that appropriate planning for Government inspection can be accomplished. In the event the representative or office cannot be located, the TESP buyer should be notified immediately.

**508 ISO/IEC 17025, ANSI Z540-3**

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The Supplier and their Subcontractors shall meet and maintain a Calibration System in conformance with Calibration Systems Requirements of ISO/IEC 17025 or ANSI Z540-3.

**509 ISO 9001:2008**

The Supplier and their Subcontractors shall implement a Quality System in compliance with ISO 9001:2008 standards at a minimum. Supplier shall promptly notify buyer's procurement representative in writing of intended or actual major change to its quality management system that may affect the conformity of its goods or services. Each change to seller's quality management system is subject to review by Buyer. Seller shall include, as part of the written notification of change to its quality management system, a list of changed procedures identified by revision level, a description of the intent of the changes and a signed statement that compliance with Buyer's quality system approval has not been diminished.

**510 IPC-SM-840, IPC-CC830, IPC-A-610, Class 3, IPC/WHMA-A-620, Class 3 and IPC-A-600, Class 3**

The Supplier and their Subcontractors are required to build Cable/Wire Harnesses Assemblies, printed boards, electronic assemblies, and subassemblies in accordance with the requirements of IPC-A-600, class 3, IPC/WHMA-A-620, Class 3, IPC-SM-840, IPC-CC-830, and IPC-A-610, class 3 as applicable.

**511 LATR for all Energetics orders**

LEEFI Lot Acceptance Test Procedure 10003039 must be completed, with all required process documentation completed and included with the parts at time of shipment to TESP.

**512 DFARS 252.233-7002 and DOD 4145.26M For All Thermal Battery Orders**

The Supplier and their Subcontractors must comply with requirements and processes in DFARS 252.233-7002 and DOD 4145.26M for All Thermal Battery Orders

**525 PROCESSES**

Process Certification must accompany each shipment to TESP and shall identify the Processor, Process used and the specifications to which they conform. Objective evidence of Process Certification shall be retained and made available to TESP and/or Customer on request.

**526 CERTIFICATE OF AGE SENSITIVE MATERIAL**

Each shipment shall be accompanied by one legible copy of a signed Certificate of Conformance or the seller's equivalent form with the same information, which identifies:

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- (1) The TESP purchase order number, material, lot, identification number, and the cure date/date of manufacture.
- (2) an expiration date, or length of shelf life from initiation of shelf life, and
- (3) Special storage/handling requirements, if any.

All age sensitive material must have at least 80% of its shelf life remaining when received by Teledyne Electronic Safety Products (TESP), unless authorized by TESP purchasing agent.

When MIL-STD-1523A is applicable, Suppliers shall mark the cure date per MIL-STD-1523A on all shippers, containers and parts or raw stock. Assemblies shall be marked with the cure date of rubber parts contained therein.

***Maximum Age Limitations***

Elastomeric hose – quarters from cure date-16  
Elastomeric O-rings – quarters from cure date-20

**528 CERTIFICATE OF COMPLIANCE**

Each shipment shall be accompanied by one legible copy of a signed Supplier Certificate of Compliance or the seller's equivalent form with the same information which certifies that all requirements of the purchase order have been complied with. The certificate shall identify the part number with dash number, quantity and the TESP purchase order number. The seller shall maintain records at his facility that will indicate that the material(s) conform to the drawing and/or specification requirements.

**530 10003014 Lot Acceptance Test Requirement – TESP TO PERFORM WHEN PARTS ARE RECEIVED**

Prior to the parts being processed through receiving inspection, A Lot Acceptance Test shall be performed, by Teledyne, per the requirements of document 10003014 paragraph 3.9 prior to stocking of parts.

**QUALITY INSTRUCTION****SUPPLIER QUALITY ASSURANCE REQUIREMENTS RIDER****553 ELECTROSTATIC DISCHARGE (ESD) REQUIREMENT MIL-STD-1686, MIL-HDBK-263, ANSI/ESD S20.20, MIL-STD-129**

This clause flows all requirements to all Suppliers and subtiers to use protection when handling or testing ESD sensitive items in accordance with MIL-STD- 1686 and/or ANSI ESD S20.20. Unless otherwise specified or approved by the acquiring activity, the MIL-STD-129 sensitive electronic device symbol and/or an ESD caution label similar to the one shown below shall be readily visible to personnel prior to gaining access to parts or assemblies.

**CAUTION NOTE**

**THIS EQUIPMENT CONTAINS PARTS AND ASSEMBLIES  
SENSITIVE TO DAMAGE BY ELECTROSTATIC DISCHARGE  
(ESD) USE ESD PRECAUTIONARY PROCEDURES WHEN  
TOUCHING, REMOVING OR INSERTING.**

**560 SERIALIZATION**

The seller shall identify each component, subassembly, or assembly by serial number in accordance with the purchase order, drawing, and/or specification requirements. Unless otherwise specified, it is the seller's responsibility to assign serial numbers. Seller's serialization system shall preclude the possibility of duplication of serial numbers. Seller's quality assurance system shall provide for traceability of all serialized supplies to the source.

**570 AS9102 FIRST ARTICLE**

All First Articles must be completed in accordance with AS9102. The first article(s) produced shall be submitted to, and inspected and accepted by, TESP Quality Assurance. Unless more than one part is specified on the purchase order, compliance with requirements shall be determined by inspection of one part to applicable drawings and specification. When submitted to TESP, first article item(s) shall be clearly identified, accompanied by the seller's first article inspection report and supporting documentation, to include all documentation required by AS9102 to verify compliance with AS9102, paragraph 5.2, such as material C of C used to manufacture the part. First articles shall be tagged or otherwise identified as first articles and show the tool number, tool serial number, and when applicable, the individual cavity number used (when more than one cavity is used, first articles from each cavity must be submitted). Items produced prior to TESP approval of the First Article shall be at the Suppliers risk. First Article approval by Teledyne does not constitute acceptance of subsequent deliveries or lots.

**QUALITY INSTRUCTION****SUPPLIER QUALITY ASSURANCE REQUIREMENTS RIDER****580 CERTIFICATE OF QUALIFIED PRODUCTS**

Each shipment shall be accompanied by one legible copy of a signed Supplier Certificate of Compliance or the seller's equivalent form which identifies the materials as qualified to the required specification and listed on an official qualified products list (QPL). Where material is qualified, but not included in the QPL, the certificate shall reflect the qualifying test report number. Approved supplier listings issued by Prime Contractors will be utilized when required by contract.

**581 SPECIAL REQUIREMENTS**

Refer to the Purchase Order attachments for description of requirements.

**590 DRAWING OR CATALOG**

The Initial shipment of items on this Purchase Order shall be accompanied with drawings and/or catalog to be used for receiving inspection purposes and must contain how the part number markings will appear on the part.

**592 NONCONFORMING MATERIAL**

The seller is not authorized to perform material review action of nonconforming material, with the intent of delivering such nonconforming materials, without the express written authorization from TESP. Disposition of any departures from the drawings, specifications or other purchase order requirements must be approved by TESP Quality Assurance. Previous dispositions shall not be considered as precedents. Resubmitted nonconforming material shall be identified either on the material or the shipping document(s) with reference to TESP's rejection document and evidence given that the cause for rejection has been corrected.

**593 IPC-A-600, IPC-6012, IPC-SM-840, and IPC-TM-650 PRINTED WIRING BOARDS**

This clause flows requirements to all Suppliers and sub-tiers. This clause establishes the qualification and performance requirements as detailed in IPC-A-600, IPC-6012, IPC-TM-650, and IPC-SM-840 for all printed wiring boards regardless of their type (Rigid, semi-rigid, flex, single-sided, double-sided, multi-layer) and must be manufactured to class 3 requirements. Supplier shall provide certification and test results that qualification and performance requirements are per their respective drawing package. Supplier shall supply board samples for Teledyne verification tests when specified on the purchase order. Suppliers and sub-tiers must maintain current certification to ISO 9001 as a minimum.



**QUALITY INSTRUCTION****SUPPLIER QUALITY ASSURANCE REQUIREMENTS RIDER****594 Facility Access:**

Seller shall provide or obtain for Buyer, Buyer's customers and regulatory agency personnel, access to any and all facilities where work is being performed or is scheduled to be performed, including those facilities of Seller's subcontractors, in order to perform item inspections, surveys or system/process surveillance as part of verification of conformance to the requirements of this purchase order. Seller's denial of any such access may result in inactivation of Seller's approval. Seller shall include the provisions of this facility access requirement in its purchase orders with its subcontractors.