

**QUALITY INSTRUCTION**

**SUPPLIER QUALITY ASSURANCE REQUIREMENTS RIDER**

<b>REV</b>	<b>DESCRIPTION OF CHANGE</b>	<b>APPROVAL</b>
NC	Initial Release	

**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.

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

Teledyne Electronic Safety Products (TESP) will be rating suppliers based on the quality of their product, quantity of documentation errors and the timeliness of responses to requests for corrective action. A continued history of substandard ratings may be cause for removal from the Teledyne Electronic Safety Products Approved Suppliers List.

**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 seven (7) 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.

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### **501 QUALITY SYSTEM**

Seller shall utilize his quality assurance procedures, workmanship standards, manufacturing procedures, process 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 seven years after last delivery against this purchase order.

### **502 F.O.D. (Foreign Object Debris/Damage) Program**

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

### **504 MIL-I-45208**

The Supplier's Quality System and his subcontractors shall have a Quality System patterned after Military Specification MIL-I-45208, "Inspection System Requirements" or Higher such as MIL-Q-9858A or ISO9001. All inspection/Test records shall be maintained at sellers for a minimum of seven years after last delivery and supplied to buyer upon request at no charge to buyer.

### **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

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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 MIL-STD-45662, ISO 10012, ANSI Z540-1**

The Supplier and his Subcontractors shall meet and maintain a Calibration System in conformance with Calibration Systems Requirements of ISO 10012-1 or ANSI Z540-1.

### **509 ISO 9001:2000**

The Supplier and his Subcontractors shall implement a Quality System in compliance with ISO 9001:2000 at a minimum.

### **510 IPC A 610, Class 3**

The Supplier and his Subcontractors are required to build electronic assemblies and subassemblies in accordance with the requirements of IPC-A-610, class 3 as applicable.

### **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.

#### **553 ELECTROSTATIC DISCHARGE (ESD) REQUIREMENT MIL-STD-129, MIL-HDBK-263, ANSI/ESD S20.20**

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 Class 1 or Class 2 parts or assemblies.

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#### **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 FIRST ARTICLE**

The first article(s) produced shall be submitted to, and inspected and accepted by, TESP Quality Assurance Prior to further production. 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 items shall be accompanied by the seller's first article inspection report. 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.

#### **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.

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### **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 PRINTED WIRING BOARDS**

This clause flows requirements to all Suppliers and subtiers. This clause establishes the qualification and performance requirements for all printed wiring boards regardless of their type. (Rigid, semi-rigid, flex, single-sided, double-sided, multi-layer). Supplier shall provide certification and test results that qualification and performance requirements are per their respective drawing package. Supplier shall also supply board samples for Teledyne verification tests with each first shipment of a new lot.