

Trident Precision Manufacturing

General

****Suppliers are responsible for compliance to all stated requirements via the purchase order, as stipulated on the website and Customer and/or Trident drawing specifications and related specification documents. As a supplier of Trident, you shall identify and manage your entire supply chain as directed (i.e. specified and/or directed via cage code, certification or approval, or if allowed chosen by you). It is your responsibility to ensure that all your subcontractors used in the entire manufacturing process meet the requirements specified per the Purchase Order and linked documents. The supplier is responsible to flow down the information as provided by Trident's customer and Trident's flow down via our website www.tridentprecision.com.***

****These standard Clauses: A1, A2, B1, B2, C1, C2, D1, E1, F1, J1, J5 (if special processes were performed), K1 and M2 are incorporated as part of all Trident Precision Manufacturing, Inc. Purchase Orders, unless otherwise stipulated per the Director of Quality. Other part or PO specific quality clauses may also be noted on the purchase order. In case of any conflict with this document and any other requirements, the order of precedence is as follows:***

- 1. Trident Precision Manufacturing, Inc. Purchase Order and attached documents for Trident's Customer Flow Down requirements***
- 2. Drawings, Specifications, and or Electronic Files***
- 3. This document – this document is denoted as the flow down to Supplier page in the Trident's Customer Flow Down Requirements or Quality Clauses.***

Element A: ***Approved Suppliers and Facility Access***

A1. Supplier Qualification – All suppliers to Trident Precision Manufacturing shall be qualified according to the Trident Precision Manufacturing's qualification process defined in our AS9100/ISO 9000-2000 Quality Management System.

A2. Facility Access – the supplier shall provide, if required, a US Government, Foreign Government, Commercial Customer, Trident Quality Assurance staff member appropriate for the specific contract and customer, access to any of the subcontractor's facilities where any work is being performed. The Trident QA shall be afforded unrestricted opportunity to audit, evaluate and verify subcontractor's compliance with the Quality System procedures and to validate product conformance with regards to specifications and requirements. The subcontractor shall make available for reasonable use by the Trident QA staff member the equipment necessary for validation purposes. The subcontractor shall make personnel available for the operation of said equipment if so required.

Element B: ***Quality System***

B1. Quality System Compliance – Supplier compliance and/or certification to AS9100 &/or ISO9001-2008, or equivalent accreditation is preferred, but is not mandatory if the vendor meets the Qualifications as defined in Trident's Quality Management System. The supplier's quality system at a minimum shall demonstrate adequate process controls to ensure the Supplier can meet Trident Precision Manufacturing Purchase Order requirements.

B2. Suspension of Contract Deliveries – Evidence of unacceptable Quality Procedures may result in suspension of contract deliveries pending demonstration of appropriate corrective actions.

B3. Record Retention – The Supplier shall maintain records that provide objective evidence of compliance to the purchase order requirements and/or specifications. The records shall be maintained for a period not less than three (3) years from completion of said purchase order.

Element C: ***Nonconforming Material***

C1. Nonconforming Materials – Trident Precision Manufacturing, Inc. retains all MRB Authority. Material which fails to meet the requirements and/or specifications of applicable drawings referenced on the Purchase Order shall not be shipped without prior written approval of Trident Precision Manufacturing, Inc. Use-As-Is and Repair dispositions on subject deliverable nonconforming material must be approved by Trident Precision Manufacturing, Inc. and it's customer if said contract requires. A copy of the approval shall be enclosed with each shipment made against the Purchase Order.

C2. Supplier Reporting – The Supplier shall provide for timely reporting of nonconformities that may affect already delivered product. Notification shall include clear description of the discrepancy, identification of the suspect parts/components (this identification is to include manufacturing dates, serial numbers of applicable, quantity, any and all related pertinent information) and material affected by the deficiency, delivery dates, and any information to the root cause and corrective actions initiated by said supplier to address the defective condition described and to prevent the reoccurrence of the nonconforming condition.

Element D: ***Material Preservation, Packaging and Labeling***

D1. Packaging/Preservation Not Specified – When specific packaging has not been referenced or defined in the Purchase Order and/or drawing the supplier shall package parts, components, materials, assemblies, etc. in a manner as to prevent damage during the course of shipment and subsequent storage at Trident Precision Manufacturing, Inc.

Element E: ***Inspection***

E1. Receiving Inspection – Any and all material (i.e. materials (raw stock), parts, components, assemblies) shipped against this Purchase Order is subject to Receiving Inspection at Trident Precision Manufacturing, Inc.

Element F: ***General Workmanship***

F1. General Workmanship – Unless otherwise specified (i.e. drawing requirements, specifications, purchase order) material shipped against this Purchase Order shall be free of dents, gauges, burrs, scratches, sharp edges, foreign matter, or any other evidence of poor workmanship standards that shall create a condition that renders said part unsatisfactory for its intended use. Additional requirements are defined in the terms and conditions section of Trident's Purchase Order.

Element G: ***Purchase Order Change Control***

G1. PO Change Request - Changes to the Purchase Order that effect the requirements defined in said Purchase Order shall be formally communicated from the supplier to Trident via a Purchase Order Change Request, and in turn from Trident to the Supplier via a Purchase Order Change.

Element H: ***Source Inspection***

H1. Trident Source Inspection – Trident Source Inspection is required on this purchase order prior to shipment of product from your plant. Trident shall be notified a minimum of one week in advance of the time of parts and/or materials is ready for inspection and/or test. In addition to material and/or part submittal, supplier shall submit all supporting documentation (i.e. inspection reports, dimensional data, material certification and test data) to the source inspector.

H2. Customer Source Inspection – Customer Source Inspection is required on this purchase order prior to shipment from your plant. Customer shall be notified minimums of one week in advance of the time of parts and/or materials are ready for inspection and/or test.

H3. Government Source Inspection – Government Source Inspection is required prior to shipment of any item on this purchase order. Upon receipt of this purchase order, promptly furnish a copy of this purchase order to the Government Representative that normally services your facility and arrange source inspection. Contact the Trident Buyer immediately if you cannot locate a government representative.

Element J: ***Certification***

J1. Certification of Conformance – A certificate of conformance is required stating, “All Purchase Order, Blueprint and/or Specification requirements (to be specifically denoted on C of C) have been met” and that inspection records, material certifications, and/or special process certifications (when applicable), are on file and available for review. An authorized agent of the supplier including the agent’s title must sign this certification. This certificate must also contain the Purchase Order number, part number and revision level and quantity shipped. Serialized items shall be identified by serial number and lot controlled items shall be identified by lot number.

J2. Certification of Calibration – For instruments, gages and measuring standards, electronic or mechanical, new, repaired, reconditioned, or re-calibrated by outside suppliers, a Certificate of Conformance to ANSI/ASQ Z540.1 or ISO 10012, as well as reference traceable standard utilized, is required.

J3. Certification of Chemical/Physical Test – Supplier shall furnish actual results of chemical/physical tests conducted on material submitted. Test reports shall identify applicable material specification and tests conducted and shall include test results and material lot control number.

J4. Certification Manufacturing Date – A certification is required for the shelf life of age/environmental sensitive materials, which states the date of manufacture, the shelf life and date of expiration. The certification must include the Purchase Order number, part or specification number, lot or batch number of the material and the quantity shipped. It also must be signed by an authorized agent of the company along with the agent’s title. Materials ordered to a prime contractor specification must meet the requirements of that specification. Distributors may not ship materials with less than 75% of the required shelf life remaining unless specifically authorized by Trident Precision Manufacturing, Inc.

J5. Certification of Special Processes – A certification is required with a statement certifying conformance to each special process (i.e. welding, plating, painting, soldering, heat treating, chemical films, anodizing, etc.) performed on the materials to the specifications (s) listed on the Purchase Order and/or Customer’s Drawing. The signature of an authorized agent of the company performing each special process including the agent’s title must appear on the certification. It must also include the Purchase Order number, part number and revision level, serial numbers (if applicable), lot number (if applicable) and quantity shipped.

Element K: ***Records and/or Reports***

K1. Record Retention – You must maintain production and quality-related records for a minimum of 7 years from date of shipment, unless Trident’s customer specifies a longer period. In this case, an additional clause shall be noted on said purchase order.

K2. Test Reports – Items on this Purchase Order require electrical, mechanical, environmental, functional, or other tests in accordance with Trident’s Customer and/or Government specifications. Suppliers shall furnish test reports containing as a minimum Trident’s Purchase Order Number, Item Number, Item Name, Revision Level, Number of Units Tested, Serial Numbers of Units Tested (if applicable), Test Parameters and Test Results.

Element L: *Special Handling and Packaging*

L1. ESD – Electrostatic Discharge (ESD) handling and package control is required by the specification or drawing on this Purchase Order. The supplier shall have procedures for protection of ESD sensitive devices during all phases of handling, packaging, storage and testing. The supplier’s ESD program shall be in accordance with MIL-STD-1686, MIL-HDBK-263, ANSI/ESD-20-20, or a Trident’s Customer approved equivalent.

L2. ESD Labeling – For ESD sensitive devices, label shall be affixed to each package or container identified as “ESD Sensitive”.

L3. Electronic Component Handling & Packaging – All electronic component parts shall be packaged such that they are kept from detrimental physical contact with any other component. Trident’s Customer may require exceptions to this, if this is the case these would be specified on the Purchase Order.

L4. Electrical & Electronic Components – Lot Date Code – Electrical and electronic components that have manufacturer lot date code identification shall be packaged to provide segregation of manufacturers and lot date code by quantity to assure traceability can be maintained.

L5. Hazardous Material – For any hazardous material, a material safety data sheet (MSDS) will be required.

Element M: *Inspection and Test*

M1. First Article Inspection – When this clause is cited on the purchase order the supplier is required to complete a first article inspection and provide all results to Trident at the time of shipment, for all AS9100 Purchase Orders the First Article Inspection shall be performed utilizing AS9102 forms or equivalent as denoted in the standard:

- a. The first article unit shall be from the initial lot, batch, run or the first 10 units produced from production tooling for this purchase order.
- b. Trident reserves the right to witness the first article inspection at the supplier’s facility.
- c. The first article inspection shall consist of all records and inspection/test data related to build history, failures, repairs, acceptance test results, and other pertinent configuration documentation.
- d. A 100% dimensional, electrical and visual criteria layout (as applicable) on a single first piece shall also be completed.

M2. First Piece Inspection – When this clause is cited on a Purchase Order, the supplier shall retain data of a first piece dimensional inspection being performed. The first piece shall be from the initial lot, batch, or run. 100% of the dimensions shall be measured as part of the first piece inspection. Data sheet shall depict dimension, tolerance, and actual measurement, and be traceable to Trident’s Customer Drawing Part number and revision. First piece inspection data shall be retained and will be made available to Trident upon request. Any revision changes to a drawing that affect any dimensions shall

necessitate additional first piece inspection be performed for those altered dimensions, notes and/or features. Special Note this action is subject to the industry standards as understood based upon suppliers level of manufacturing involvement (i.e. the manufacturer of the product performs the first piece inspection, the distributor performs receiving inspection activities, raw material suppliers maintain Chemicals and physicals from the mills, and special process suppliers perform analysis of their operation not the entire part.)

M3. Critical/Key Dimensional Inspection – When this clause is cited on a Purchase Order, the supplier shall provide critical/key dimension inspection results with each shipment. Critical/Key dimensions shall either be identified on the drawing, or as part of the purchase order notes. Data shall be supplied on 100% of the identified dimensions, to a 1% AQL of the production lot.

M4. Inspection and Test Plan – When this clause is cited on the purchase order, the supplier shall submit an inspection and test plan to Trident. **Changes are not allowed to the inspection and test plan without the approval from Trident.** The inspection and test plan should include the following:

- a. A flow chart shall include a brief word description of the type of operation, inspection or test performed at the steps provided in the chart.
- b. An identification of the applicable test procedure numbers, process specifications, or other documents utilized in the performance of operations listed.

Element N: *Material Lot Control/Traceability*

N1. Material Lot Control - Material on this Purchase Order requires material lot control and traceability. Manufacturing lots shall be traceable and identified to manufacturing documents. Lot date codes, manufacturing lot numbers, or unique job numbers are acceptable means of identification and must be referenced on certification of compliance and traceable to the supplier's manufacturing documents. Lot date codes shall not exceed three years from date of manufacture. As applicable, for assemblies and sub-assemblies, lot date codes shall not exceed three years from date of assembly.

Element P: *Change Control*

P1. Change Control – No change in specification, materials or manufacturing process that may effect fit, form and function is allowed to items on this purchase order without written authorization from Trident Precision Manufacturing, Inc.

Element R: *Approved Sources*

R1. Special Processes Approved Sources – Some special processes such as heat treatment, plating, etc. must be performed by a Trident approved processor, NADCAP approved processor, or processor approved by Trident's Customer.