

Supplier Quality Assurance Provisions

NOTE: Teledyne Storm Products Inc. is herein referred to as TSP

Table 1
GENERAL REQUIREMENTS – Applicable to all TSP Purchase Orders

Requirement Name	Requirement
Surveillance & Right of Entry	Representatives of TSP, it's customers, Government, and/or regulatory agencies (if applicable) reserve the right to visit the supplier and it's suppliers with the intent of performing surveillance activities including inspections, surveys, and audits with the intention of verifying conformance to 1) product requirements as invoked by TSP purchase order; 2) general requirements as defined in this table; and 3) specific requirements in Table 2 as invoked by TSP purchase order. In addition, TSP reserves the right to visit to resolve product quality issues.
Design and/or Process and/or Material Changes	The supplier shall not implement any changes to TSP drawings and/or specifications and/or materials without written approval from TSP.
Submission of Nonconforming Material to TSP	Items not in conformance with the requirements of the Purchase Order, TSP drawings, specifications, and industry standards referenced therein, or that cannot be corrected through continuation of the original manufacturing process or by rework, shall not be submitted to TSP without prior written approval. Submittals shall include supplier-recommended disposition(s) with sufficient technical justification.
Return of Nonconforming Material from TSP	Nonconforming items returned from TSP which are subsequently resubmitted by the supplier following material review disposition activities shall bear a particular indication of such resubmission on the accompanying paperwork and shipping documents. Reference shall be made to the TSP rejection documentation and evidence presented to demonstrate that the causes for rejection have been corrected.
First Article Inspection	TSP may perform First Article inspection per SAE AS9102 under the following conditions: 1) new supplier; 2) new part number; 3) revision change; 4) same manufacturer but lapse between production runs of 1 year or greater; 5) verification of implementation of corrective & preventive actions; 6) new facility; or 7) change of ownership.
Corrective Action	When requested by TSP, the supplier shall investigate nonconformities to determine the root cause(s) of failures, and take effective action(s) as appropriate to correct the items and prevent future failures. Unless otherwise requested by TSP, such corrective action(s) may be documented in the supplier's format.
Calibration	The supplier shall only utilize inspection and test equipment for acceptance that has been calibrated to the requirements of ANSI/NCSL Z540.1-1994 or other industry recognized standards.
Preservation & Packaging	Unless otherwise specified, the supplier shall use good commercial practices for preservation and packaging of items supplied to TSP.
Flow Down Requirements	The supplier shall insure that requirements be flowed down to sub-tier suppliers, including key characteristics where required.
Traceability	The supplier shall maintain internal traceability to the raw material level, and shall be able to provide such traceability within a reasonable time frame if requested by TSP.
Record Retention	The supplier shall maintain all records supporting items shipped against this PO for a period of no less than seven (7) years from date of shipment to TSP.
TSP Furnished Tooling	Tooling (fixtures, jigs, molds, etc.) and test equipment fabricated by the supplier at TSP expense, or furnished by TSP, shall be considered property of TSP. TSP is responsible for routine and periodic maintenance and calibration of such items. Suppliers are responsible for insuring appropriate protection during transport, storage, and use. Some amount of wear and tear is expected through usage.
Change of Facility or Ownership	The supplier shall notify TSP when manufacturing operations being performed in support of this purchase order are moved to another facility with a separate street and/or city address. Supplier shall also notify TSP if ownership of the supplier has changed.

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Table 2
SPECIFIC REQUIREMENTS - SQAP Codes as Invoked by TSP Purchase Order

Code No.	Requirement Name	Requirement
1	Product Verification System	For product verification the supplier shall have implemented as a minimum, an inspection system meeting the requirements of MIL-I-45208 or equivalent. When required, the supplier shall be prepared to demonstrate the system through 1) submission of quality manual and supporting documentation; 2) responding to questionnaires; and 3) on-site surveys and audits by TSP representatives, etc. <ul style="list-style-type: none"> • <u>Note:</u> Suppliers are encouraged to utilize Statistical Process Controls (SPC) and other proactive and preventive control methods wherever possible.
2	First Article Inspection	The supplier shall perform a First Article Inspection (FAI) on one piece chosen at random from the first lot presented for TSP acceptance. The FAI shall be performed and documented per the requirements of SAE AS9102, latest revision in effect at time of order placement. A copy of the FAI report shall be submitted to TSP with the shipment. If discrepancies are noted during the FAI, the supplier shall promptly notify the TSP Buyer/Planner for directions.
3	Certificate of Conformance	A legible “Certificate of Conformance” (C of C) statement shall be provided with each shipment submitted to TSP. The C of C shall be in the supplier’s format and may either be a separate document or may be included within the packing list. The C of C statement shall state that the items were produced in conformance with requirements as specified in the TSP purchase order. As a minimum, the C of C shall note 1) the manufacturer or distributor’s name and address; 2) the TSP purchase order number; 3) the part number(s) and revision(s) when applicable; 4) traceability information including serial numbers, lot codes, or date codes as appropriate; 5) shelf-life expiration dates if applicable; and 6) signature of the supplier’s authorized representative. The C of C shall contain enough additional information as necessary to facilitate traceability to supporting supplier documentation, which shall be maintained on-file by the supplier and available for retrieval if necessary.
4	DX/DO Defense and Priorities Allocation System	This is a government rated order certified for national defense use, and you are required to follow all the provisions of the Defense Priorities and Allocations System regulation (15 CFR part 700) as specified on TSP purchase order. Also you required to: <ol style="list-style-type: none"> 1. Acknowledge (or reject) PO within the time as follows: <ol style="list-style-type: none"> a. DX rated within 10 working days b. DO rated within 15 working days 2. Reject DX/DO orders in writing with specific reason for rejection. Failure to acknowledge PO conditions shall imply acceptance to POs written.
5	Use of Special Processors	The supplier shall insure that special processes (including plating, painting, passivation, heat treating, welding, NDT, etc.) as defined by NADCAP were performed in accordance with military or industry specifications as listed in the fabrication drawing or purchase order. Suppliers are encouraged to utilize NADCAP approved special processors.
6	Test Data	The supplier shall provide test data with the subject item(s). Such test data shall include individual or summary parameter measurements as appropriate.
7	Government Source Inspection	Government inspection is required prior to shipment from supplier’s facility. Upon receipt of purchase order, the supplier shall notify the government representative(s) who normally service the supplier’s facility, for coordination and scheduling of inspection(s).
8	TSP Source Inspection	TSP inspection is required prior to shipment from supplier’s facility. TSP shall be notified a minimum of 24 hours prior to intended shipment when items are ready for TSP source inspection. To schedule, <u>FAX request to (310) 823-5098, or call (310) 823-5491, extension 256.</u> In either case, please provide 1) the TSP purchase order number; 2) the TSP part number(s); 3) the quantity of each part number; and 4) the date(s) source inspection is being requested for.
9	Soldering Workmanship	Soldering workmanship shall be in accordance with the requirements of IPC/EIA J-STD-001, Class 3.

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Code No.	Requirement Name	Requirement
10	Solderability	Component leads, terminations, lugs, terminals, and wires shall be capable of meeting the solderability requirements of IPC/EIA J-STD-002. Printed wiring boards shall be capable of meeting the solderability requirements of IPC/EIA J-STD-003.
11	Limited-Life Materials	Limited-life materials shall be identified by either 1) the date at which the useful life has begun [date of manufacture]; and 2) the date the useful life will be expended [expiration date]. For limited life items with date of manufacture as start of useful life, supplier should have available when requested an official explanation of the life cycle of the product. In addition, appropriate environmental conditions for storage and usage shall be clearly labeled on the item(s) as applicable. Material(s) with less than 75% of the useful life remaining shall not be accepted upon receipt at TSP without written approval from TSP.
12	Plating Certifications & Data	The supplier shall furnish a certification of plating plus thickness measurements for all layers of plating supplied. If plating was applied by a Nadcap-approved special processor, the processor shall be required to only supply the Certificate of Conformance as noted in Code 10 as well as the plating measurements.
13	Mercury Exclusion	Products furnished under this purchase order shall contain no metallic mercury or mercury compounds and shall be free of mercury contamination. The supplier shall furnish a signed statement of conformance to this requirement. The statement can be included within the supplier's certification of conformance submitted per Code No. 3.
14	Spare and Replacement Parts	For items not fabricated to TSP drawings and specifications (for example, off-the-shelf and/or supplier part number), the supplier shall document spare and replacement parts or assemblies and supply sufficient data and/or information for ordering spares and replacements.
15	Dock-to-Stock, Certified Supplier	Parts received from the supplier shall be routed directly to TSP inventory or work in process area without TSP incoming or source inspection by virtue of certified status granted to suppliers having exceptional quality and delivery performance record according to criteria specified in the TSP Certified Supplier Program.
16	Raw Material Test Reports	For raw materials (metals) utilized to fabricate TSP parts, the supplier shall provide raw material test reports containing detailed physical and chemical analysis and data.
17	Raw Material Test Reports, Maintain on-File	For raw materials (metals) utilized to fabricate TSP parts, the supplier shall maintain on-file raw material test reports containing detailed physical and chemical analysis and data. Such reports shall be available to TSP if requested.
18	Use of NADCAP-Approved Special Processors	The supplier shall utilize NADCAP approved special processors as listed on the most current revision of the TSP Approved Special Processor List (ASPL) to perform special processes (heat treatment and plating being the most common) as noted in the applicable TSP drawing(s) and referenced specifications. Suppliers are encouraged to recommend additional NADCAP approved special processors to TSP for possible addition to the TSP Approved Vendor List (AVL) and ASPL due to cost, quality, or delivery reasons. In such instances, please contact TSP Purchasing in advance so TSP can contact the special processor candidate and perform a simple qualification process.
19	RoHS	Components used on materials supplied as non-taxable items must be compliant to EC Directive 2002/95/EC Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment
20	DFARS	Metals used on materials supplied as non-taxable items must be compliant to DFARS 252.225-7014, <i>Alt 1 Preference for Domestic Specialty Metals</i>
21	ITAR or EAR-99	The supplier shall provide on order acknowledgement the export classification and the country of manufacture of the purchased item. Refer to the International Traffic in Arms Regulations 22 CFR Chapter I, Subchapter M, Parts 120-130 and the Export Administration Regulations 15 CFR Chapter VII, Subchapter C, Parts 730-774 for information on making export classifications.