



Procurement Quality Clauses

FMQ-018-00

IMPORTANT: Notwithstanding the provisions of any of the following clauses, the Supplier is in no way relieved of the final responsibility to furnish the supplies or services as specified or referenced in the Purchase Order.

STANDARD QUALITY CLAUSES FOR ALL P.O.'S ARE 001 – 012

Clause 001: AS 9100/ISO 9001:2000 Quality System Requirements

Supplier in performance of this order shall maintain a Quality System conforming to AS 9100/ISO 9001:2000 Quality System Requirements, latest revision. If the Supplier is not currently certified to the AS 9100/ISO 9001:2000 standard, Hidden Valley Electronics may perform an audit to determine if any deficiencies exist. Any deficiencies identified by Hidden Valley Electronics during the audit must be corrected by the Supplier within and agreed upon time frame.

Clause 002: Quality System Requirements

- a) Supplier in performance of this order shall provide and maintain a quality system which assures conformance to requirements and which has been approved by Hidden Valley Electronics and the Supplier appears on the Hidden Valley Electronics Approved Supplier's List.
- b) Compliance is required to the current revision of any reference document unless a specific revision is cited by the controlling drawing or in the Purchase Order text.

Clause 003: Static Sensitive Items

Items delivered on this order, which are susceptible to damage from electrostatic discharge (ESD), shall be manufactured and packed or wrapped in ESD protective containers or bags per ANSI ESD S20.20. Each container or bag shall be marked with an ESD warning label.

Clause 004: Certification of Compliance

A. Certificate of Compliance for OEM (Original Equipment Manufacturer)

The Supplier in performance of this order shall provide a certificate of compliance required with each shipment as a precondition of invoice payment. The C of C shall identify the materials supplied and shall include the P.O. #, part #, Drawing Revision and Quantity. All components/parts, etc., must be of new origin. Serialized parts shall be identified by a serial #, and lot controlled items shall be identified by a lot #. The C of C shall then be signed and dated by the Manager/Director of Quality or Designee. Signing of this document acknowledges that the subject supplier has met all Hidden Valley Electronics contractual / print/ associated requirements for the subject part.

B. Certificate of Compliance for Distributors and Distributors of Suppliers and Sub-Tier Suppliers.

The distributor in performance of this order shall provide a certificate of compliance required with each shipment as a precondition of invoice payment. The C of C shall identify the materials supplied and shall include the PO #, Part #, Drawing Revision & Quantity. All components/parts, etc., must be of new origin. Serialized parts shall be identified by a serial #, and lot controlled items shall be identified by a lot #. The C of C shall then be signed and dated by the Manager/Director of Quality or Designee. Signing of this document acknowledges that the subject supplier has met all Hidden Valley Electronics contractual/print/associated requirements for the subject part. Suppliers shall maintain certification records of their distributors.

All Hidden Valley Electronics requirements for this purchase order must be flowed down to the Distributor's Sub-Tier Suppliers.

Clause 005: Specification Compliance

Items or services purchased to military or commercial specification requirements shall conform to the requirements and revision of those specifications in effect on the date of this purchase order.

Clause 006: Solderability Certification

The supplier, in performance of this order, is required to certify that the external leads, pins and terminals of all non-gold leaded components and parts, and all terminals, shall be tested to and comply with the solderability requirements specified in J-Std-002, current revision. For semiconductors or microelectronics shoe detail specification requires solderability in accordance with Mil-Std-750, Method 2026, Mil-Std-883, Method 2003, and for modules, the aging requirement of Mil-Std-202, Method 208, may be omitted.



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Clause 007: Printed Circuit Boards

Printed Circuit Boards shall be manufactured to the requirements of MIL P 55110, IPC-6012 or MIL P 50884 (Flex Strips) as applicable, latest revision. PWB's shall be tested and comply with the solderability requirements specified in J-Std-003, current revision. The circuit boards shall conform to the drawing and/or specification requirements accompanying this order.

Clause 008: Age Sensitive Materials (Limited Calendar Life)

Supplier shall identify each item, package, or container of limited shelf life material with the current date or date of manufacture, storage, temperature, and special handling conditions in addition to the normal identification requirements. No less than 75 % of the product's limited life will remain at the time of shipment by the Supplier, unless a lesser period is authorized by Hidden Valley Electronics.

Clause 009: Supplier Requests for Corrective Action (SCARS)

All Hidden Valley Electronics requests for Supplier Correction Action shall be responded to. These notices reflect Quality/Inspection concerns, and responses must properly address containment actions, root cause, corrective actions, verification, and actions to prevent recurrence that are instituted at the supplier's facility. The response must be returned within 15 days. Failure to respond to these requests may jeopardize continuation of business.

Clause 010: Resubmission of Rejected Materials

All items rejected by Hidden Valley Electronics and subsequently resubmitted by the supplier to Hidden Valley Electronics shall bear indication of such resubmission on each item or on the supplier's shipping document. Reference shall be made to Hidden Valley Electronics rejection document (inspection report) and evidence given that the causes for rejection have been corrected and corrective action has been taken to preclude.

Clause 011: Hidden Valley Electronics Access Clause

Hidden Valley Electronics and/or its Customers reserve the right to conduct a survey at the subcontractor's and/or sub-tier Supplier's facility, including all manufacturing processes and documentation used in the manufacturing of products on this purchase order, to determine compliance with the requirements of this purchase order.

Clause 012: Supplier Request for Variation Procedure

The Supplier is required to comply with the requirements of the purchase order and all referenced drawings and/or specifications. However, where circumstances dictate, the Supplier may desire to request permission to deliver non-conforming items or material. Such requests must be submitted in writing by the Supplier to Hidden Valley Electronics prior to shipment of parts or other purchased items. In no event is Material Review Board Authority delegated to Hidden Valley Electronics Suppliers or sub-tier vendors. All such approvals for acceptance of non-conforming material shall be in the form of documented approval by the Hidden Valley Electronics Material Review Authority.

Clause 013: Hidden Valley Electronics furnished raw material

Hidden Valley Electronics furnished parts, components, materials or other items supplied on this order are on the basis that the Supplier agrees that the said material and items are satisfactory and adequate in all respects, including scrap allowance, to perform this purchase order. Upon completion of this order, the supplier shall, within 30 days, advise Hidden Valley Electronics of the amount and type of unused materials or items. The supplier agrees to maintain traceability and include said traceability by including the Hidden Valley Electronics identification in the C of C paperwork in the following format: "The following material was manufactured with Hidden Valley Electronics supplied" (Part Number and Lot Number as applicable).

Clause 014: Objective Evidence Documentation at Supplier Facility

The Supplier is required to maintain on file, actual copies of the chemical, physical, dimensional and functional test results traceable to the materials used in completion of this purchase order. Test reports of chemical, physical, dimensional and functional results are required to be maintained at the Supplier's facility for on-site review, and copies are to be made available to Hidden Valley Electronics, upon request. Retention period shall be 10 years unless otherwise specified by the P.O.

Clause 015: Inspection/Test Reports (Objective Quality Evidence)

One (1) copy of the Final Inspection and/or Test Report denoting conformance with all applicable specifications, including quantitative data, shall be submitted with each shipment. Supplier shall maintain original inspection/test data which shall be available for review by Hidden Valley Electronics and/or U.S. Government Representatives.



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Clause 016: Government Source Inspection (Supplier Furnishes P.O.)

Government Inspection is required at the point of manufacture. Upon receipt of this order, promptly furnish a copy of this order, including one (1) copy of these Purchase Order clauses, to the Government Representative who normally services your plant, or if none, to the nearest Defense Contract Management Area Operations (DCMAO) in your locality.

Clause 017: Hidden Valley Electronics Source Inspection

Hidden Valley Electronics Source Inspection is required at the point of manufacture. When material is ready for inspection, or when practicable, five days in advance thereof, notify the Hidden Valley Electronics buyer who handles your account. Hidden Valley Electronics Source Inspection may accomplish any of the following:

1. Supplier Quality Surveys or Quality Audits
2. In-process, end item or incoming inspection
3. Witness and/or monitor acceptance testing
4. Inspection of end item and/or component level per drawing requirements

Evidence of Hidden Valley Electronics Source Inspection shall accompany shipment to Hidden Valley Electronics.

Clause 018: Government Access Clause

Federal Acquisition Regulation (FAR) 52.246.2 requirements apply to this purchase order.

Clause 019: Radiographic (X-ray) Control

Radiographic film standards required are as established between Hidden Valley Electronics and the Supplier as mutually acceptable or as specified by the applicable specification standard referenced on the Hidden Valley Electronics specification or drawing. Referenced radiographic Standards E155 are to be used by the Supplier to determine acceptance standards for start-up approval and by Hidden Valley Electronics for lot acceptance verification by an outside independent test laboratory. The discontinuity severity limits on the referenced radiographic standards are maximum and shall not be exceeded. X-ray, test reports, and certification are to accompany parts to Hidden Valley Electronics.

Clause 020: First Article Approval

The Supplier is required to provide a one piece inspection report every 2 years per SAE AS9102 verifying each dimension on the drawing by actual variable dimensional measurement readings, or a test report verifying actual measurements/readings taken prior to Hidden Valley Electronics inspection and acceptance of any production material. The Supplier must also provide evidence that components and/or sub-assemblies used in the manufacture of the purchased item meet all applicable drawing and specification requirements (i.e. material certifications). The inspection layout or test report and callouts shall be reported and identified (on a drawing); clearly identified inspection samples are to be forwarded to the Hidden Valley Electronics buyer for verification by Hidden Valley Electronics inspection or testing.

First piece/first piece reports are also required under the following conditions:

1. When making a process change, Supplier change or sub-tier Supplier change.
2. Following refurbishment or rearrangement of existing tooling or equipment.
3. When requested by Hidden Valley Electronics or as prescribed by SAE AS9102, Section 5.3.

Clause 021: Control of Special Processes

The supplier, in performance of this order, must provide the identification of the process Supplier, the process performed, and certification of the process (include revision if applicable) in writing with each shipment of items to Hidden Valley Electronics. The applicable special processes requiring approval are listed as follows:

Extension of Shelf-Life (as necessary in the performance of the purchase order)

Welding-Glass Sealing-Plating-Chemical Treatment

Brazing-Shot Peening-Painting-Adhesive Bonding (Structural)

Casting-Heat Treating-Anodizing-Radiographic Inspection

Forging-Soldering-Hard Coat-Magnetic Particle Inspection

Dye Penetrant Inspection Destructive

Physical Analysis

Printed and Flexible Wiring Boards, Cables or Cards



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Clause 022: Certification of Chemical and Physical Tests

Supplier in performance of this order must provide the following certifications with each shipment of material. One (1) copy of the actual physical and chemical test results of the materials used in the completion of this order shall be forwarded with each lot. Such copies and the originals shall remain in the Supplier's possession, available to the buyer's surveillance. The lot or batch number shall appear on all such certifications and test results. All material supplied against this Purchase Order shall be from a single lot or batch.

Clause 023: Process Freeze

Upon approval by Hidden Valley Electronics as a qualified source, through first article or first lot acceptance, the Supplier shall not make any changes in design, materials or processes which may affect the acceptability (dimensional, visually, functionally, durability, etc.) of the items to be delivered to Hidden Valley Electronics without prior notification and approval of Hidden Valley Electronics. For the purpose of this clause, a process is defined as any procedure, system or practice used during the manufacture or production of a deliverable item (i.e. machining, de-burring, heat treating, soldering, cleaning, finishing, etc). The Supplier must have written authorization to implement a process change by Hidden Valley Electronics Engineering and Quality, prior to implementation. Hidden Valley Electronics may require a re-qualification of the part depending on the nature of the change.

Clause 024: Preproduction Approval

Preproduction approval is required. The Supplier shall coordinate with Hidden Valley Electronics Supplier Quality Department for approval to ship production material. All required documentation and samples must be approved prior to shipment of production material. Ship the quantity samples specified of each item for qualification by Hidden Valley Electronics Quality Assurance and all required documentation.

Clause 025: Certification of Calibration Requirements

The calibration laboratory or service providing requirements in the performance of this order shall provide a calibration certification report to include the following information as a minimum:

1. Identification-name and identification number of each item.
2. Date of calibration.
3. Identification and accuracy of calibration standard used.
4. N.I.S.T. test number including date.
- 5 Environmental conditions-temperature and humidity.
6. Calibration corrections and/or repair information (if applicable).
7. Certification to MIL STD 45662 or ISO 10012 or Z540.1 or ISO/IEC 17025 current date or version.
8. Calibrate per manufacturer's specifications unless otherwise noted.

CLAUSES 027-43: RESERVED

Clause 044: Component Termination Finishes

Electronic, Electrical, Electromechanical & Mechanical piece parts and assemblies called out in this Purchase Order shall not have pure tin finishes. This also applies to component leads/terminations, bodies, cages, brackets, housings, wires and mounting hardware (nuts, screws, bolts, etc.).

- Any tin-lead plating or solder process/processes and lead finishes shall contain no less than 3% lead composition unless specifically authorized in writing by Hidden Valley Electronics.
- Alloys containing bismuth are not allowed.
- Tin/nickel alloys are not allowed.
- The following finishes are also acceptable: gold, nickel palladium, nickel - palladium-flash gold, tin – silver and tin – silver – copper.
- All electronic components with lead-free finishes shall be marked with the finish code per IPC-1066 or JESD97.
- Suppliers shall certify and show objective evidence that their product does not contain pure tin finishes.
- Notice of change of existing parts from tin/lead must be in writing to Hidden Valley Electronics Procurement.