

# VENDOR QUALITY REQUIREMENTS

## **Missing or incomplete documentation will result in rejection and delay of processing**

During the performance of this order your Quality Management System and manufacturing processes are subject to review and analysis by authorized Smiths Detection Inc., or Government representatives. Government inspection or release of product prior to shipment is not required unless otherwise notified.

**VQR 1. SUPPLIER QUALITY SYSTEM** - Supplier shall maintain a quality system adequate to ensure that all products or services are delivered in compliance with all requirements and specifications for the purchase order or contract. The system shall include as a minimum, but not be limited to the following areas:

**(1) Documentation and records**

Manufacturing inspection and testing shall be described in clear, complete, and current instructions containing criteria for approval and rejection of product at all stages. Records shall be maintained at each stage of manufacturing, inspection, and test. The records shall indicate as a minimum, the nature and number of inspections, the number and types of deficiencies found, with actual reading of data being recorded and the quantities approved and rejected. There shall be a positive indication of inspection status on all records. The records shall be made available to Smiths Detection personnel upon reasonable request.

**(2) Corrective and preventive action**

Prompt action shall be taken to correct root causes which have resulted in or could result in deficient material being produced or delivered to Smiths Detection. The corrective action system shall also address material already delivered.

**(3) Measuring and test equipment**

All instruments used to accept or reject material shall be calibrated to its applicable specification. Frequency is determined by the direction of the instruments specification and the amount of usage. Records must be maintained. All standards used in calibration shall have verifiable traceability to the Applicable national standards.

When necessary, the equipment shall be made available to Smiths Detection representatives to determine conformance with contract requirements. If conditions warrant, supplier's personnel shall be made available for operation of such equipment and for verification of their accuracy and condition.

**(4) Drawing and change control**

A drawing and change control system shall be established and maintained which ensures that the latest applicable drawings, specifications, and instructions required by the purchase order or contract are used for fabrication, inspection and testing. The supplier's internal documentation and Smiths Detection supplied documentation shall be controlled by this system.

**VQR 2. ISO 9001: 2008** – Supplier shall have a registered and certified Quality Management System.

**VQR 3. QUALIFIED PART CERTIFICATION** - The supplier shall certify that the item supplied is a Qualified Product List item. The certification must convey the following:

- (1) The Smiths Detection purchase order #.
- (2) The name of the QPL manufacturer.
- (3) The applicable test number of the qualification approval.
- (4) A statement to the effect that the purchases item has been inspected and/or tested and meets the requirements of the specifications.

**VQR 4. CERTIFICATE OF CONFORMANCE** - At a minimum the certificate must convey the following:

- (1) The Smiths Detection purchase order #.
- (2) Certificate must include part #, quantity, and revision.
- (3) For all Smiths Detection build-to-print purchase orders:
  - a. Drawing(s) revision in effect at time of Purchase Order issuance are part of this Purchase Order. No changes to top level revision or sub-tier drawing(s) may be made without written approval from Smiths Detection buyer.
  - b. Smiths Detection gives no Material Review Board (MRB) authority, except for Return to Vendor (RTV), Scrap or Rework (RWK). Any other disposition, including Repair, must be approved in writing by Smiths Detection buyer.

**VQR 5. ANALYSIS/TEST DATA** - Smiths Detection requires analysis and/or test data for items on this purchase order which must, as a minimum, convey the following:

- (1) Smiths Detection purchase order #.
- (2) Unmistakable identity of the purchased item, i.e. specification #, type, class, style, grade, or # and revision.
- (3) The analysis/test requirements, chemical, physical, or electrical listed by paragraph and/or table, noting the specification limits.
- (4) A specific quantity of the item listed by lot # or shipment #.
- (5) The actual test results listed in a numerical manner, unless limited results are allowed by the specification.
- (6) The test data must be signed by a responsible representative or the supplier with a title indicated.

**VQR 6. SMITHS DETECTION SOURCE INSPECTION** - The supplies on this order are subject to Smiths Detection source inspection at the point of manufacture unless otherwise specified. Notify Smiths Detection seven days prior to readiness for inspection so that appropriate planning can be accomplished.

**VQR 7. GOVERNMENT SOURCE INSPECTION** - The supplies on this order are subject to Government inspection at the point of manufacture. A copy of this order must be furnished promptly to either the Government inspector who normally services your plant, the nearest Government inspection office, or the service who placed the prime contract. In the event that the inspection office cannot be located, our purchasing agent must be notified.

**VQR 8.**

**VQR 9. SAMPLE APPROVAL** - (Molds, materials, tooling, etc.) A first article inspection of the item/mold at Smiths Detection is required prior to production run. Parts must be clearly marked "Samples, for Approval Only" and be sent to purchasing. Supplier is to indicate method of inspection.

**VQR 10. FIRST ARTICLE INSPECTION/TEST** - The supplier must submit first article inspection/test reports and parts to Smiths Detection prior to production run. Parts must be clearly labeled "First Article for Inspection Only." Contact Smiths Detection quality representative for specific details. Supplier is to indicate method of inspection.

**VQR 11. STATISTICAL PROCESS CONTROL** - A plan for the implementation of SPC shall be submitted by supplier for review and approval by Smiths Detection prior to the initiation of production.

**VQR 12. SMITHS DETECTION TOOLING CONTROL** - The Supplier shall send a report to Smiths Detection that documents the following Smiths Detection-owned tooling status:

Tool #  
Tool Location  
Tool Condition  
Tool Date of Manufacture  
Number of Cavities

**VQR 13. FIRST ARTICLE INSPECTION REPORT** - A First Article Inspection Report is required for all drawing dimensional and note specifications. The first article part shall be identified.

**VQR 14. SHELF LIFE** - Shelf life requirements and storage instructions must be furnished by the supplier. Upon receipt of material to Smiths Detection, purchased item(s) must retain, at a minimum, 75% of the dated shelf life or a minimum of 12 months.

**VQR 15.** The supplier shall have an ESD control system in place to meet the requirements of ANSI/ESD S20.20-1999 Protection of Electrical and Electronic Parts, Assemblies and Equipment **ELECTRO-STATIC DISCHARGE PROTECTION (ESD)** - All devices shall be packed in containers capable of protecting the devices from damage caused by electro-static discharge. Package(s) shall be marked externally with a standard **ESD CAUTION** label or the following statements (or equivalent):

**"CAUTION: Contains Material Susceptible to Damage when Subjected to Electrostatic Discharge (ESD)"**

"In-process Material must be Adequately Controlled to Prevent ESD Damage"

**VQR 16.**

**VQR 17.**

**VQR 18.**

**VQR 19. SMITHS DETECTION CERTIFIED SUPPLIER** - Supplier meets requirements for Smiths Detection certified program.

**VQR 20.**

**VQR 21.**

**VQR 22.** Smiths Detection Receiving Inspection is required.

**VQR 98. SEE ITEM COMMENTS FOR QUALITY REQUIREMENT**

**VQR 99.** Any noninventory, non-MRP purchase requisitioned items or nondeliverables do not require a Quality Representative verification or VQR requirement. Certificate of conformance not required.