



Fisica Applied Technologies, Inc.  
Business Unit: Datron

## SUPPLIER QUALITY REQUIREMENTS

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**GENERAL** -The following clauses are a requirement of the procurement when specified by number and letter designation paragraph, as applicable on the procurement document. Additional Program or Specification Clauses or notes also form a part of this order as defined in the purchase document.

### SECTION A: QUALITY AND RELIABILITY

#### A-1 SELLER'S INSPECTION SYSTEM REQUIREMENTS

The Seller shall in the performance of this PO/S, provide and maintain an inspection system which shall assure all supplies submitted to Datron for acceptance have been verified to conform to the Purchase Order / Contract, Drawing and/or Specification requirements, whether manufactured or processed by Seller or by sub-tier suppliers.

All test and inspection records shall be maintained for a minimum of 5 years.

All Measuring and Test Equipment used for acceptance shall be calibrated and have records of calibration on file.

All items/materials procured shall be marked in the following manner as applicable:

- a. Datron's P/N and revision letter
- b. Manufacturer's P/N or ID number
- c. Lot number or date code
- d. S/N
- e. Quantity (when bagged)

**NOTE:** Items too small or inappropriate to mark individually shall be packaged in suitable containers and the container identified as mentioned above with quantity noted.

#### A-2 SELLER'S INSPECTION SYSTEM REQUIREMENT DOD CONTRACT

The Seller shall, in the performance of this PO/S, provide and maintain an inspection system which conforms to Military Specifications: MIL-I-45208, "Inspection System Requirements" or ISO 9002 and ANSI/NCSL Z540-1-1994 "Calibration Laboratories and Measuring and Test Equipment – General Requirements."

#### A-3 SELLER'S QUALITY PROGRAM REQUIREMENTS DOD CONTRACT

The Seller shall, in the performance of this PO/S, provide and maintain a quality program which conforms to Military Specifications: MIL-Q-9858A, Quality Program Requirements or ISO 9001 and ANSI/NCSL Z540-1-1994 "Calibration Laboratories and Measuring and Test Equipment – General Requirements."

## **SECTION B: INSPECTION/AUDIT REQUIREMENTS**

### **B-1 BUYER SOURCE INSPECTION**

All items on this PO/S require source inspection and/or test witness by Buyer at the Seller's facility prior to shipment. The Seller shall notify the Buyer not less than three (3) days in advance of the time items are ready for inspection or tests.

### **B-2 IN-PROCESS INSPECTION**

Items on this PO/S require inspection during manufacturing at points specified on Purchase Document or as a minimum, prior to closure. This inspection shall be performed at Seller's facilities.

### **B-3 BUYER SOURCE INSPECTION ENVIRONMENTAL /QUALIFICATION TESTS**

The Seller shall notify the Buyer not less than three (3) days in advance of the time environmental/qualification tests begin. At Buyer's option, the Buyer will witness in part or whole the environmental/qualification tests. The Seller need not defer starting environmental/qualification tests pending Buyer's witnessing, once the required notification has been given to the Buyer.

### **B-4 GOVERNMENT SOURCE INSPECTION**

Government source inspection at the Seller's plant is required prior to shipment of the items on this PO/S. Upon receipt of this procurement document, promptly furnish a copy to the Government Quality Control Representative who normally services your facility or to the nearest Army, Navy or Air Force Inspection Office in your locality. In the event the Government Quality Control Representative or Office cannot be located, the Buyer should be notified immediately. When the material is ready for inspection, or if practical, ten (10) days in advance thereof, notify the cognizant Government Quality Control Representative. Seller's shipping documents must show objective evidence of Government acceptance.]

### **B-5 GOVERNMENTAL INSPECTION**

During performance on this order, your Quality Control or Inspection System and Manufacturing Processes might be subjected to review verification and analysis by authorized Government Representatives. Buyer shall notify seller five (5) days in advance if this is required. Government inspection or release of product prior to shipment is not required unless you are otherwise notified. You shall provide a copy of this order to your Government Representative upon request.

### **B-6 FIRST ARTICLE INSPECTION (FAI)**

First Article shall be required when:

1. First time buy from supplier.
2. Supplier has not produced the part in a lapse of 2 years.

3. Design change.
4. Change in process, tool, manufacturing location, or ownership
5. Specifically required as a note on PO.

First article Report Requirement:

- a. One detail part, positively identified as "First Article", shall be submitted with the shipment.
- b. First Article bubble (balloon) drawing.
- c. First Article Inspection (FAI) all drawing notes and each characteristic of the drawing shall be accounted. FAI shall include actual measurements of inspected dimensions and—evidences support the drawing notes.
- d. Raw material certs required to make the part.
- e. Special Process certifications such as non-destructive test, metal joining, cleaning, heat treating, casting and finishes as required per drawings.
- f. Applicable test data as required per drawing notes.
- g. Partial/Delta FAI – same as items a, b, d, e, and f, but only require to address the differences between the current configuration and prior approved configurations measurements on the changed dimensions and evidence to support changed notes.

**NOTE 1:** Supplier fabricates additional items or begins production of items prior to acceptance of first article at their own risk.

**NOTE 2:** This code does not apply if the vendor is providing MIL, SAE, NAS PNs, and COTS items, RF & electrical assemblies.

#### **B-7 VISITING SELLER'S FACILITIES**

Upon Seller's acceptance of Buyer's PO/S Buyer has the right to conduct surveys, audits, and surveillance of Seller's facilities or those of Seller's subcontractors, or suppliers with prior coordination with Seller to determine the capability to comply and to verify continuing compliance with the requirements of the Procurement Document. Buyer has the right to perform inspection at Seller's facilities or those of Seller's subcontractors, or suppliers with prior coordination with Seller during the period of manufacture and inspection prior to shipment. Final inspection and acceptance shall be performed at the Buyer's facility unless otherwise specified on the Procurement Document.

#### **B-8 INSPECTION REPORT**

This requirement only applies to machined weldments and welded enclosures.

Items on this PO(S) must be accompanied by an Inspection Report.

The Inspection report can be on supplier's form. Inspection report shall show actual measurements of the inspected drawing dimensions with tolerance of +/- 0.010" or less.

**Note:** This code does not apply if the vendor is providing MIL, SAE, NAS PNs, and COTS items; cable assemblies, RF & electrical assemblies, machined and formed parts. It only applies to weldments. This clause does not apply if supplier provided the First Article Report (B-6) with the part.

### **B-9 NON-CONFORMING PRODUCT**

When it is discovered that non-conforming product has been shipped to the Buyer, the Seller must notify the Buyer immediately in writing of the non-conformance and the impact of that non-conformance to product safety and performance.

## **SECTION C: TECHNICAL REQUIREMENTS**

### **C-1 MATERIAL TRACEABILITY**

The Seller shall, in the performance of this PO/S provide and maintain a system of traceability for all materials, components, and parts used for the manufacture of procured items. Seller shall maintain traceability records for a minimum of five (5) years.

### **C-2 INSPECTION TOOLING (Buyer owned)**

Seller is held responsible for the protection, calibration, and care (other than normal wear) of all inspection tooling and equipment that may be loaned and/or purchased by Buyer from the Seller to facilitate performance of work on this PO/S. Seller shall not perform modifications on any tooling unless provided by contract change. All modifications must be inspected and accepted by Buyer. Said tooling or replacement tooling of equal quality, shall be returned in an acceptable condition, upon demand or notice to the Seller from Buyer. Seller will also provide adequate packaging of returned inspection tooling and equipment.

### **C-3 CONTROL OF PROCESSES**

Non-Destructive Test, metal joining, cleaning, heat treating, casting, and finishes, when required by specifications of the items on this PO/S, shall have Buyer approval/certification of facilities, equipment, procedures, processes, and operating personnel, as applicable. Unless otherwise specified in the procurement document, test results and test coupons required by the process specification, will be retained on file by the process supplier for a minimum of five (5) years.

### **C-4 CASTINGS FOUNDRY CONTROL**

The castings on this PO/S require evidence of Foundry Control, Radiographic film, identified as Foundry Control X-Rays, must be submitted with sample castings for the Buyer's approval. X-Rays must be identified with the Buyer PO/S number and will be retained by Buyer. All castings are to be ink stamped indicating casting lot number and heat treat lot number, if heat treat is performed.

### **C-5 DRAWING CONTROL**

Seller's design drawings, fabrication methods, processes, and applicable product specifications shall not be changed without 90 day notification to Buyer where said change will affect form, fit, function or interchangeability. Such written notice shall clearly set forth the reason for the change in order to review compatibility with previous versions supplied. Articles produced, which incorporate an approved change to form, fit, function or interchangeability, shall be identified to indicate incorporation of the change by provision of a new part number for the latest version.

- a. A Seller Specification or Catalog is required.

### **C-6 PART SUBSTITUTION**

Part substitution shall not be allowed. The exact part number as identified on the Purchase Document (Mil-Spec or Supplier Part Number) or the exact part number identified in the purchase item drawing shall be provided. Distributor evaluated parts which meet the purchase drawing shall be communicated with the Buyer prior to delivery for the technical evaluation and proper documentation.

### **C-7 SOLDERABILITY**

Solderability of leads and terminations shall comply with the requirements of J-STD-002, Typical Coating Durability for Tin and Tin-Lead Finish Electronic Component Leads, Terminations, solid Wire, Lugs and Tabs. Any parts delivered that are over 2 years old from date of manufacture must be accompanied by a C of C that documents that parts have been re-certified to meet above requirements.

Solderability of Printed Wiring Boards shall be performed and evaluated to the requirement of J-STD-003, Solderability Tests for Printed Boards. The shelf life of products meeting the requirement of J-STD-003 will be 1 year from date of manufacture for tin/lead fused finished and 6 months for hot air leveled products. Material delivered will have a minimum of 80% of the shelf life remaining. Residual materials with less than 80% of the designated shelf life remaining will not be acceptable for delivery.

### **C-8 FASTENERS**

All fasteners supplied to the Purchase Document shall be lot segregated in sealable bags labeled with:

- a. Part number
- b. Manufacturer's Name
- c. Manufacturer's FSCM/CAGE Code Identification
- d. Manufacturer's Lot Number
- e. Distributor's Name (as applicable)
- f. Purchase Order Number

Only current domestic QPL manufacturers shall be utilized; or if Non-QPL fasteners, domestic manufacturers, which have a past history of supplying reliable fasteners, shall be utilized.

**C-9 COUNTERFEIT PARTS (applicable to EEE parts only)**

Reference Datron's Work Instruction QA-1000, section 29.0 for guideline to avoid the risks associated with using counterfeit or substandard parts.

**If suspect/counterfeit parts are furnished under this purchase order and are found in any of the goods delivered hereunder, such items will be impounded by Buyer. The Seller shall promptly replace such suspect/counterfeit parts with parts acceptable to the Buyer and the Seller shall be liable for all costs relating to the removal and replacement of said parts. Buyer reserves all contractual rights and remedies to address grievances and detrimental impacts caused by suspect/counterfeit parts.**

**SECTION D: DOCUMENTATION WITH SHIPMENT**

**D-1 CERTIFICATE OF GOVERNMENT APPROVED QPL SOURCE**

The Seller's acceptance of this PO/S and subsequent shipment to Buyer shall constitute a warranty that the manufacturer of material described herein has been granted qualification by the Defense Supply Agency (DSA) in accordance with the applicable Military specification and accordingly shall appear on the Qualified Products List (QPL). The Seller will forward a Certification with the material, stating the material appears on the "QPL", and meets all requirements of this Purchase Order; and shall have the hand written signature of a quality representative or officer of Seller's facility and their title.

**D-2 CERTIFICATE OF CONFORMANCE**

A Certificate of Conformance shall be supplied with each shipment stating that all items meet the requirements of the Procurement Document.

The Certificate of Conformance shall reference the PO, Part Number, Revision, Manufacturing Date, Date Code, lot number, and Serial Number (as applicable) and signature of a Quality Representative or Officer and his title.

Seller shall maintain on file in Seller's facilities documentary evidence of inspection and/or tests that verify validity of this Certificate of Conformance of items shipped and that these inspections or tests will be made available to Buyer and/or Government on request for a period of five (5) years.

**D-3 RAW MATERIAL CERTS**

Raw material certification must accompany with shipments. The report shall include where applicable: 1) Manufacture's name; 2) Spec number; 3) Material grade; 4) Material Condition; 5) Size; 6) Heat Lot number; 7) Date Code; 8) Chemical Analysis; and 9) Physical properties as applicable to material process.

**Note: This code does not apply if the vendor is providing MIL, SAE, NAS PNs, and COTS items; RF and Electrical assemblies**

#### **D-4 IDENTIFICATION OF AGE DATED MATERIAL**

Supplier's packing sheet and/or shipper must specify date of manufacture. (Example: If date is February 1975, identify as "02/75".) All containers and/or packages of material, as applicable, shall be identified as to date of manufacture, in the manner previously described, storage environment and shelf life expiration date, Manufacturer's batch/lot number, and cure dates. Material(s) delivered shall have 75% useful life remaining. Any material(s) with less than 75% will not be acceptable for delivery unless otherwise noted on the Procurement Document.

#### **D-5 FUNCTIONAL TEST REPORTS**

Seller shall furnish test reports indicating the results of the functional tests performed. Seller shall list the actual results of such tests on each test sheet and shall have the hand written signature of a quality representative or officer of Seller's facility, and shall be traceable by S/N to item tested.

#### **D-6 CERTIFICATE OF CONFORMANCE (Buyer's Material)**

Seller shall forward with shipment to Buyer against this PO/S a certificate of conformance to all PO/S and/or contracts that Buyer furnished material was used in manufacturing and/or processing of items; and shall have the hand written signature of a quality representative or officer of Seller's facility and their title.

#### **D-7 INSPECTION REQUIREMENTS DOCUMENTATION**

Copies of all of Seller's inspection planning, inspection procedures and test procedures, including flow charts showing inspection points, with identification of the inspection procedures used at each inspection point, used in processing the PO/S shall be submitted to the Buyer in triplicate for approval two weeks prior to use. This includes piece parts as well as end items. There shall be space for recording inspection verification of all parameters required by drawings and specifications of these documents.

#### **D-8 RADIOGRAPHIC INSPECTION**

The material on this PO/S requires inspection by a certified X-Ray Laboratory. Each radiograph shall include the image of the part number, part serial number, identification of the area radiographed, and identification of the view direction. Seller's techniques are subject to prior approval by the Buyer. The laboratory shall interpret films and the findings reported on an appropriate form. Three copies of the Laboratory report, the radiographic technique, the radiographic sketch, and the radiographs shall accompany the material. In addition, each item shall be stamped with the certified Radiographer's Identification Symbol.

#### **D-9 PROCESS CERTIFICATION**

Special Process certifications are a requirement of the PO(S). Certifications must accompany all shipments to Buyer and shall identify the processor, the specification, and the process, such as:



Non-destructive test, Metal Joining, Cleaning, Heat treating, Casting and Finishes. Certificate must be signed by an authorized quality representative.

**Note:** Special Process Certificate does not apply if the vendor is purchasing MIL, SAE, NAS PNs, and COTS items; RF and Electrical assemblies.

#### **SECTION E: PACKAGING/SHIPPING**

**E-1** Package using best commercial practices for the protection of items unless otherwise noted on purchase order.

**E-2** Items sensitive to static electricity shall be protected in static-shielding containers.

#### **SECTION F: OZONE DEPLETING SUBSTANCES**

##### **F-1 USE OF ANY CLASS I OZONE DEPLETING SUBSTANCES**

In the design, manufacturing, testing, cleaning, or any other process for this item under any military or federal specification, standard or drawing referenced in this item description is "prohibited" unless the separate written approval of Datron's procurement is obtained. This prohibition supersedes all specification requirements but does not alleviate any product performance requirements. This does not apply to commercial items, as defined in "FAR 11.001" or to part numbered only items.