

# Meggitt Defense Systems Inc. - Quality Terms for Purchase Orders

## Applicable to All Purchase Orders

All items delivered shall be fabricated in accordance with general industry standards for good workmanship. Packaging shall protect the item from shipping damage. Electrostatic sensitive items shall be packaged to prevent static damage and conspicuously marked as static sensitive.

The supplier shall use the following guidelines to determine the quality code and documentation submittal requirements for each shipment. Applicable requirements must be flow-down to sub-tier suppliers. In the event any item cannot be met, notify the Meggitt Defense Systems, Inc. (MDSI) Buyer immediately.

Commercial Off The Shelf Parts: 6, 7 (add 17 when furnishing electronic component parts)

Machined/Sheet Metal Fabricated Parts: 6, 7, 8, 9, 10, 13 (add 15 when part marking is specified on the drawing or by the purchase order and add 16 when Key Characteristics are identified on the drawing and add 18 when welding and/or NDT is specified on the drawing or by the purchase order)

Printed Circuit Card, Bare or Populated: 6, 7, 13 (add 12 if component soldering required and, 16 when Key Characteristics are identified on the drawing and 17 when furnishing electronic component parts for printed circuit card population)

Cable Harness: 6, 7, 10, 13 (add 12 if soldering is required, add 15 when part marking is specified on the drawing or by the purchase order, 16 when Key Characteristics are identified on the drawing and 17 when furnishing electronic component parts as part of the cable harness assembly)

Raw Material: 6, 7, 9, 13

Outside Processing: 6, 7, 13 (add 16 when Key Characteristics are identified on the drawing)

Specification or Source Controlled Drawing Item: 6, 7, 13

Limited Shelf Life Material (chemicals, Adhesives, etc.) 6, 7, 11, 13

Custom castings, forgings, extrusions, injection moldings: 6, 7, 9, 10, 13 (add 3 for parts produced from new or revised tooling and 16 when key characteristics are identified on the drawing)

**Code No's 1 through 5 and 14 apply only when indicated on the face of the Purchase Order. In the event any item cannot be met, notify the Meggitt Defense Systems, Inc. (MDSI) Buyer immediately. Exception: Although not indicated on the face of the purchase order, Code 3 applies to custom castings, forgings, extrusions, injection moldings as required above.**

### **Department of Defense Government/Customer Source Inspection**

#### **Code 1**

Government inspection is required prior to shipment from your plant. Upon receipt of this order, promptly notify and furnish a copy of the Purchase Order to the Government Representative who normally services your plant so that appropriate planning for Government inspection can be accomplished. In addition, the supplier shall notify the Government Representative at least forty-eight (48) hours prior to testing or inspection of items and/or processes.

Note: MDSI reserves the right to waive source Government and/or customer source inspection at any time. However such a waiver shall have no affect whatsoever on the supplier's responsibility to fully comply with all of the drawing and specification requirements and all other terms and conditions of the purchase order.

### **Meggitt Defense System Inc Source Inspection**

#### **Code 2**

All work performed under this order requires Meggitt Defense Systems Inc. inspection and/or test verification at the supplier's facility. Notify the MDSI Buyer at least seventy-two (72) hours in advance of the item being ready for source inspection.

Note: MDSI reserves the right to waive source inspection at any time. However such a waiver shall have no affect whatsoever on the supplier's responsibility to fully comply with all of the drawing and specification requirements and all other terms and conditions of the purchase order.

### **First Article Part Inspection**

#### **Code 3**

The supplier must provide a sample first article (including inspection report) for dimensional and functional approval prior to making production item(s). The supplier is to notify MDSI seventy-two (72) hours in advance for approval examination. Such examinations may be conducted at the supplier's facilities or at the Meggitt Defense Systems Inc. receiving inspection area at MDSI discretion.

Note: MDSI first article inspection acceptance shall not waive whatsoever the supplier's responsibility to fully comply with all of the drawing and specification requirements and all other terms and conditions of the purchase order.

### **Critical Product Control Plan**

#### **Code 4**

Due to the critical application of the article/material under this purchase order, the supplier shall deploy a Product Control Plan for Manufacturing. The plan shall provide documentation of the controls in place to ensure manufacturability, quality and compliance. The plan shall delineate the sequence of production operations to be performed, the points where quality controls will be performed, and the types of inspections or verifications performed. The plan shall include reference to the control methods, procedures and inspection instructions used in manufacturing of procured article(s). The plan shall be submitted to MDSI's Buyer for approval by Quality Assurance prior to production of the article. Supplier shall not change, add, or delete any process, material or procedure used in manufacturing of articles under this purchase order without prior approval by MDSI Quality Assurance.

### **Electrical Test Screening**

#### **Code 5**

All Electrical items delivered will undergo additional electrical screening at MDSI. Parts shall conform to applicable requirements as define in the purchase order and any other applicable requirement(s).

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## Product Nonconformance

### Code 6

Items, products or materials not conforming to requirements of this Purchase Order/subcontract, drawing, specification, test, etc. shall not be shipped to MDSI without prior written approval of MDSI Quality Assurance by submitting a Supplier Request for Material Review (SRMR). The SRMR shall describe the nonconformance in detail, the quantity, and the cause and corrective action to preclude a recurrence. Failure to comply will result in return of the shipment at the supplier's expense and will affect supplier rating.

**Note:** The only authorized material review board (MRB) activity conducted by the supplier under this purchase order is limited to only those non-conformances associated with supplier's internal drawings so long as there is no impact/violation to the MDSI drawings and specifications requirements for dimensions, functional and test performance or material requirements. Changes that **do** impact/violate these requirements require prior MDSI written approval as stated above.

## Certificate of Conformance/Record Retention/Traceability

### Code 7

Supplier shall provide a C of C and as applicable, supporting documentation with each shipment. Supplier shall maintain on file all quality data/records such as: certificates of material and/or processes, acceptance test reports, inspection records, and other applicable quality control data, for a minimum of seven (7) years from completion of Purchase Order. These records shall provide objective evidence of the quality assurance operations performed to permit traceability from the delivered item back through its manufacture and inspection to the procurement records and its constituent parts and materials and must be readily retrievable and made available to MDSI and/or its customer upon request.

## The Special Process Certification

### Code 8

Special process suppliers (welding, brazing, heat treating, NDT, plating, chemical filming, etc.) are responsible for compliance to the applicable specifications, whether the operation is performed within their facility or by subcontractors. Supplier's Process Certification must identify vendor performing special process, show actual data from verification of process, reference the applicable specification and be signed by authorized Quality Assurance personnel.

**Note:** All metal plating, surface finish, and conditioning shall be performed by NADCAP approved suppliers when such finishing is conducted IAW the following specification types: Military (MIL), Federal (QQ), American Society for Testing (ASTM) and Society of Automotive Engineers (SAE).

## Material Test Reports

### Code 9

The supplier shall submit a chemical and/or physical test report per the applicable specification for the materials shipped under this order with actual test results from samples of this specific lot of material.

## Article Inspection & Acceptance Test Reports

### Code 10

The supplier shall submit evidence of Article Inspection and acceptance test data representing the actual data captured during the verification/validation process per the applicable specification for the items shipped under this order. CMM report must accompany shipment when CMM is used for verification/validation.

## Shelf Life Materials

### Code 11

The supplier shall state, in writing, the manufacturing date, shelf life, and expiration date for all limited shelf life items supplied under this order. All items shall have 75% or more of their shelf life remaining at the time of shipment to MDSI. All items shall be packaged, labeled and transported per applicable regulatory requirements.

## Soldering Requirements

### Code 12

All soldering operations, including inspection, shall be performed in accordance with IPC J-STD-001 current revision. The use of pure tin solder material is strictly prohibited. Any Tin solder material used shall contain not less than 3 percent lead content. Supplier shall also maintain an electrostatic discharge (ESD) control program.

## Supplier Notice of Change

### Code 13

- a. Drawing changes conducted by the supplier under this purchase order is limited to only those changes associated with supplier's internal drawings so long as there is no impact/violation to the MDSI drawings and specification requirements for dimensions, functional and test performance or material requirements. Changes that **do** impact/violate these requirements require prior MDSI approval.

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- b. Following first shipment of goods to MDSI, supplier will notify MDSI prior to any proposed change in configuration of supplier's product including components; if, in MDSI's judgment the proposed change might affect the product's use or performance in MDSI's assembly, the configuration change shall not be made without MDSI's written approval.
- c. Supplier shall provide written notice to MDSI's Buyer prior to implementation of changes to supplier's ownership, manufacturing operations and plant location.
- d. The requirements established under this clause apply for future purchase orders for the same item(s).

## Higher Level Quality management System

### Code 14

- a. Supplier shall maintain an ISO 9001 certification or equivalent Quality Management System (QMS). The QMS/certification shall be employed by the supplier throughout all purchase order/contract phases. The QMS and QA Program may be subject to review and approval by MDSI.
- b. Supplier shall maintain an AS 9100 certification or equivalent Quality Management System (QMS). The QMS/certification shall be employed by the supplier throughout all purchase order/contract phases. The QMS and QA Program may be subject to review and approval by MDSI.

## Marking Requirements

### Code 15

Marking on product will be in accordance with drawing requirements. When requirement is for ink stamping, apply clear lacquer over marking per table I of MIL-STD-130. "Bag & Tag" articles shall have the marking applied to the packaging as applicable. Laser Engraving may be performed in lieu of Electro-chemical etch. If supplier selects to ship parts from their residual inventory (parts made under different P.O. number), parts can be accepted by lasering a line thru the previous P.O. number only and engraving the new P.O. number.

Note: MDSI cage code 62228 is replacing the following legacy cage codes:

Western Design	59027
Pneu Devices Inc/Howden Fluid System	33654
Fluid Control Division (FCD)	80293
Cartright Electronics	51462
PDA	55794
Hayes Target	34761

1. Marking requirements when MDSI is the design activity.

#### example

62228-025180-1	(MDSI's FSCM#, P/N)
MFR-XXXXX	(Vendor's FSCM / CAGE #)
PO030817-03.97	(P/O #, Mfr. date)

2. Marking requirements when MDSI is not the design activity.

#### example

30003-029713-1	(MDSI's customer FSCM#, P/N)
MFR-62228	(MDSI's FSCM#)
PO030817-03.97	(P/O #, Mfr. date)

## Key Characteristics

### Code 16

When Key Characteristics is part of the drawing requirements, supplier must obtain a plan from MDSI for monitoring and control of those features.

## Counterfeit Parts Prevention

### Code 17

Supplier (electronic component distributor or custom electronic assembler) is hereby notified that the delivery of counterfeit parts is of special concern to MDSI. If counterfeit parts are furnished under this order or found in any of the custom assembled goods delivered hereunder, such items will be impounded by MDSI. The supplier shall promptly replace such counterfeit parts with parts acceptable to MDSI. To further mitigate the possibility of the inadvertent use of counterfeit parts, the supplier shall only purchase electronic component parts directly from the Original Component Manufacturer (OCM) / Original Equipment Manufacturer (OEM) or

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through authorized distributors. Procurement through Independent Distributors or Brokers is NOT authorized, unless approved in writing by MDSI.

## **Welding and Non-destructive Testing (NDT) Certification**

### **Code 18**

- 1) When welding is part of the drawing or purchase order requirements, the person performing the welding must be currently certified to meet the certification requirements set forth in MIL-STD-2219 and/or AWS D17.1 or any applicable document in effect at the time of purchase order performance.
- 2) When non-destructive testing is part of the drawing or purchase order requirements, either explicitly or implicitly stated, the person performing the NDT must be currently certified to meet the requirements set forth in MIL-STD-410 (AIA-NAS-410), ISO 9712, or any applicable governing bodies' requirements in effect at the time of the purchase order performance.