

GENERAL DYNAMICS SATCOM Technologies		TITLE		DATE (YY/MM/DD)
		Quality Codes for Purchased Items		09/10/30
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ECN NO. 09-0209				

**QUALITY CODES
FOR
PURCHASED ITEMS**

Document No. 1000-1241

General Dynamics SATCOM Technologies

Richardson Facility

**1219 Digital Drive
Richardson, Texas 75081
Tel: 972-852-5300**

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0000 NO SPECIFIC QUALITY REQUIREMENTS APPLY

This item is not modified by quality codes. GD SATCOM's standard purchase order terms and conditions apply.

Revised: AUGUST 2004

0001 GENERAL QA INSTRUCTIONS TO VENDORS/SUPPLIERS

Material cannot be accepted by GDST Quality Assurance and released for payment until all purchase order requirements are completed. All supplemental terms, conditions and quality requirements must be met. Particular attention shall be given to the QA CODES cited below. Non conformances are recorded and count against your supplier performance rating and result in delayed payments. Repeated failure to comply with P. O. requirements will result in removal from the GDST Approved Supplier List.

Revised: SEPTEMBER 2009

0002 MATERIAL CERTIFICATION REQUIRED

A certification for the primary material; stating the specification, type, grade, class, etc. must accompany each shipment (i.e.: 2024-T4 aluminum alloy per QQ-A-250/4, or structural steel per A36, or class 3b, grade 50 silicone rubber per ZZ-R-765, etc.). NOTE: A Code 0044 Certificate of Analysis will always satisfy this requirement.

Revised: AUGUST 2004

0003 FIRST ARTICLE VERIFICATION (FAV)

- 1.0 FAV is a requirement of this purchase order if:
 - 1.1 This order is the first to the supplier's facility for the part number identified on the purchase order, or if
 - 1.2 This is a repeat purchase order and there has been a revision change to the drawing, or if
 - 1.3 There has been a break in the supplier's production of this part of more than two years (unless otherwise specified in the contract), or if
 - 1.4 This is the first purchase order for this part number to call out FAV; i.e., it is a new requirement, or if
 - 1.5 There has been a change in a Sub-tier Supplier or Manufacturing Process for any of the following special processes: Welding, Brazing, Plating and Painting.
- 2.0 FAV report shall consist of:
 - 2.1 Recorded inspection and test variables (actual measured values) data for all characteristics and parameters, unless otherwise defined in a GDST approved Acceptance Test Procedure or Qualification Test Plan from the supplier.
The use of GDST Form 1000-F1247 (available from GDST buyer) is recommended but use of supplier's format is acceptable as long as all required data is documented.
 - 2.2 All Material certificates of analysis and conformance as required.
 - 2.3 When Quality Code 37 is specified on the P.O., proof of use of a NADCAP Qualified Supplier for Non-Destructive Test (NDT). Refer to website <http://www.prLsae.org/NADCAP/gml.htm>. NDT reports shall accompany the product (X-Rays need not be shipped). NADCAP sources not applicable to Semiconductor/Microelectronic Devices and Castings.
 - 2.4 Proof of compliance to additional Quality Codes listed on the Purchase Order.

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- 3.0 This data shall be shipped to GDST - Richardson with the deliverable lot (see Quality Code 29 for items drop shipped to another location).
- 4.0 At the discretion of GDST, actual verification of the FAV data at the supplier's plant may be required (see Quality Code 4 and/or 5).

This document is an integral part of the contract (purchase order), which calls it out. The revision in effect at the time the purchase order was placed applies.

Revised: NOVEMBER 2009

0004 GD SATCOM FIRST ARTICLE SOURCE INSPECTION

Inspection of the first deliverable item produced under this order is required. The seller shall provide the necessary facilities, equipment and personnel qualified to demonstrate conformance to the order requirements to the GD SATCOM Quality Assurance representative for this inspection. At its option, GD SATCOM may waive source inspection and perform the required first article inspection at GD SATCOM without prior notice to the seller. The seller shall obtain written acceptance of the first article prior to further shipments. The First Article Report shall consist of recorded inspection and test variables (actual measured values) data for all characteristics and parameters. The seller shall provide notice of inspection readiness ten days in advance and confirmation no less than forty-eight hours in advance thereof.

Revised: MARCH 2009

0005 GD SATCOM SOURCE INSPECTION

GD SATCOM source inspection is required prior to shipment. Notify the GD SATCOM buyer at least 7 days prior to materials being ready for source inspection.

Revised: AUGUST 2004

0006 SHELF LIFE/AGE CONTROL

The following information must be provided with each shipment:

- a. Certification to the applicable specification and P. O. Requirements
- b. Lot or batch number
- c. Shelf life or expiration date - established from the last day of the month of manufacture. A minimum of 75% of the shelf life must remain upon receipt at GD SATCOM. When shelf life is provided the date of manufacture must also be specified.
- d. Special handling and storage precautions when necessary (heat, cold, winterization, extreme temperature limits, humidity, etc.).

Revised: AUGUST 2004

0007 SPECIAL PROCESSES

The vendor must supply a certification of compliance for all special process specifications (platings, chemical films, special treatments, and finishes, heat treat, welding, etc.) listed on the drawings and/or purchase orders. The certifications must state the specifications (i.e.: D1.1, A563-DH, B 695 class 50, etc.) in detail including bake times and temperatures, plating thickness, etc. as applicable. The certificate shall be signed by an authorized representative of the supplier.

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0008 ANSI/NCSL Z540 CALIBRATION SERVICES

The supplier must furnish a certified statement showing the results of the calibration and that services were performed in accordance with ANSI/NCSL Z540-1994 Part 1. Calibration results must be traceable to NIST standards. Certification must state "as received" condition to allow the validity of previous measurement results to be assessed.

Revised: AUGUST 2004

008A ANSI/NCSL Z540 CALIBRATED EQUIPMENT

The supplier must furnish a certified statement that the equipment has been calibrated in accordance with ANSI/NCSL Z540-1994 Part 1 and is traceable to NIST standards. If the equipment has a calibration history the recommended calibration cycle or date the current calibration expires shall be provided.

Revised: AUGUST 2005

0009 ISO 9001/MIL-Q-9858A

The supplier must maintain a quality system certified to ISO-9001:2000 (or later) or comply with the provisions of military specification MIL-Q-9858A, "Quality Program Requirements".

Revised: MARCH 2009

0010 INSPECTION SYSTEM

The supplier must comply with the provisions of military specification MIL-I-45208A, "Inspection System Requirements" or maintain a system certified to ISO-9001:2000 (or later).

Revised: MARCH 2009

0011 STATEMENT OF QUALITY

The supplier shall provide a certified statement that all required inspections have been performed. Notarization is not required but the statement must be signed by an authorized representative of the supplier with appropriate identification of the position or title held. To be acceptable, statements of quality must include the following as a minimum:

- a. Lot number, date code and serial number (if applicable)
- b. Specification or drawing number and revision
- c. Grade, class or value for which the product was inspected
- d. Number of samples inspected
- e. Type of inspection or test (attribute or variable)
- f. Location and date of final inspection
- g. Location and availability of objective quality evidence

Revised: AUGUST 2004

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0012 GOVERNMENT SOURCE INSPECTION

Government source inspection is required prior to shipment from your plant. Upon receipt of this order, promptly notify the government representative who normally services your plant so that appropriate planning for government inspection can be accomplished.

Revised: AUGUST 2004

0013 CERTIFICATE OF COMPLIANCE

A signed statement that the items being furnished comply with all the requirements of the purchase order shall accompany each shipment. To be acceptable, certificates of compliance must include the following as a minimum:

- a. GD SATCOM purchase order number
- b. GD SATCOM part number and revision
- c. Quantity being certified or the applicable packing list number
- d. Supplier name and address
- e. Signature and title of an authorized representative
- f. Date

Certifications must be a statement of facts; generalized, ambiguous, or "to the best of our knowledge" statements are not acceptable.

Revised: AUGUST 2004

0014 AMS, AN, ASTM, ASME, MIL, MS, NAS, SAE, ETC. ITEMS:

Certification that items comply with all the requirements of the applicable controlling documents shall accompany the shipment. Specific procurement document (AMS, AN, ASTM, ASME, MIL, MS, NAS, SAE, etc.) numbers must be specified. Where QPL sources are a part of the procurement document, a certified statement that those items were manufactured by sources approved (listed in the qualified products list) for the applicable specification shall be included. Certifications must accompany each shipment and contain the GD SATCOM P. O. Number, quantity being certified, date and signature of an authorized representative of the supplier.

The applicable Qualified Product/Qualified Producer List (QPL) shall be the revision in effect on the date this purchase order was issued.

Revised: MARCH 2009

0015 ASSEMBLY REQUIREMENTS

This item is an assembly and additional quality requirements apply to the piece parts and hardware as follows:

Custom piece parts and hardware controlled by customer design:

- Full material certifications (chem & phys. analysis, etc.)
- Full processing certifications (heat treat, plating, NDT, etc.)
- All test data required by controlling specifications

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- Other data as may be required by the quality engineer or our customer.

ASTM, MS, AN, MIL, ASME, SAE, NAS, AMS, etc. items:

Certification that items comply with all the requirements of the applicable controlling documents.

Specific procurement document (AMS, ASTM, ASME, MIL, AN, MS, NAS, SAE, etc.) numbers must be specified.

Where QPL sources are a part of the procurement document, a certified statement that those items were manufactured by sources approved (listed in the qualified products list) for the applicable specification shall be included.

The applicable Qualified Product/Qualified Producer List (QPL) shall be the revision in effect on the date this purchase order was issued.

Custom hardware controlled by manufacturer design:

Certification that items and their installation comply with all the requirements of the applicable controlling documents is required. Specific part numbers must be specified in the certification. A certified statement that items were procured from the manufacturers identified in the specification shall be included with the shipment.

All certifications must be statements of fact. Generalized, ambiguous or "to the best of our knowledge" statements are not acceptable.

Revised: MARCH 2009

0016 ACCEPTANCE TEST PROCEDURE (ATP)

The seller shall submit to GD SATCOM one reproducible copy of the acceptance test procedure (ATP) at least ten days prior to requesting GD SATCOM source inspection or at least ten days prior to shipment of the articles, as applicable. As a minimum, the ATP shall:

- 1) Be identified with a control number and revision status.
- 2) Exhibit approval by the seller's quality function.
- 3) Address acceptance testing of all performance and mechanical characteristics of the GD SATCOM specification that are applicable to the level of testing required, i.e., qualification, first article and/or production.
- 4) Contain a clear and concise description of the test methods to be used in performing each test.
- 5) Contain a list of test equipment to be used, including the manufacturer's name and model number.
- 6) Contain block diagrams of test equipment set-ups identifying interconnection points and equipment used.
- 7) Contain data sheets that present specified information.

In the event of a required revision to the ATP during performance under this order, the seller shall furnish one reproducible copy of the revision to GD SATCOM prior to inspection. The revision shall be identified as described above and shall exhibit evidence of approval by the seller's quality function.

Revised: AUGUST 2004

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0017 GD SATCOM SUPPLIED MATERIAL

When GD SATCOM supplies material, components or piece parts to be used in the manufacture of this item, there shall be no unauthorized substitutions. Lot control information will be provided and traceability must be maintained unless otherwise stated in the purchase order. Certification that only the materials supplied by GD SATCOM were used and that no unauthorized substitutions were made shall accompany shipment. Certifications shall include lot traceability information. When serial numbers have been provided for material, components or piece parts the serial number traceability must be maintained through all manufacturing processes to their respective certification.

Revised: AUGUST 2004

0018 QUALITY DOCUMENTATION REQUIRED

Certification for all materials and processing used in the production of this item is required. Quality documentation is required for all inspections and tests specified by the drawing and specifications.

Revised: AUGUST 2004

0019 TEST REPORT REQUIRED

The item(s) supplied is to be tested in accordance with the applicable drawings and/or specifications as stated in this P. O. All test results are to be documented and supplied as part of the test report. Non-conformances shall be identified as part of the test report. When items to be tested are serialized, data shall be traceable to the individual serial number. Equipment calibration shall be in accordance with ANSI Z540-1 1994 Part 1. Certification of test results shall be provided as part of the test.

Revised: AUGUST 2004

0020 PACKING OF MACHINED PARTS

Purpose

The purpose of this requirement is to provide direction and instructions for the packaging and handling of fabricated parts to assure that parts are received at GD SATCOM in an undamaged condition.

Requirements

- A. Unless otherwise specified, fabricated parts furnished on this Purchase Order shall be individually wrapped or bagged so that no part shall be in direct contact with another. The packaging material shall be adequate to prevent parts from tearing or abrading through during normal handling or shipping.
- B. Any parts which are received at GD SATCOM and are not protected per this requirement will be subject to rejection and return for corrective action.

Revised: AUGUST 2004

0021 HAZARDOUS MATERIAL-MSDS

1.0 Scope

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This document defines the requirements for labeling and packaging of materials which have been identified as HAZARDOUS MATERIAL. When specified by number on the purchase order, this requirement forms a part of the purchase order.

2.0 Applicable Document

2.1 D.O.T. Hazardous Materials Regulation TITLE49CFR173.3

2.2 D.O.T. Hazardous Materials Regulation TITLE29CFR1910.20

3.0 Identification of Materials

The supplier certifies that each container and carton of hazardous chemicals delivered will be labeled, tagged or marked with the following information in accordance with D.O.T. 29CFR1910.20/OSHA 1910.1200:

1. Identity of Hazardous Chemicals
2. Appropriate Hazard Warnings
3. Name and address of the manufacturer, importer or other responsible party.

It is understood that all chemicals, whether hazardous or not, will have with them Material Safety Data Sheets (MSDS). (An MSDS need not be supplied with each shipment if one has been received within one year and is on file from each supplier). Failure to comply with these requirements is cause for rejection/return of the material for credit only or as deemed necessary by the buyer.

4.0 Packaging of Materials

The supplier certifies that the materials are packaged and labeled in accordance with D.O.T. Regulation TITLE49CFR173.3.

Revised: AUGUST 2004

0022 MERCURY EXCLUSION CERTIFICATION

The supplier shall certify that the items furnished under this purchase order contain no metallic mercury or mercury compounds and are free from mercury contamination (i.e., during the manufacturing process, tests, or inspections, the supplies offered shall not have come in direct contact with mercury or any of its compounds nor with any mercury containing devices employing only a single boundary of containment. A single boundary of containment is one which is not backed by a second seal or barrier to prevent contamination in event of rupture of the primary seal or barrier).

Revised: AUGUST 2004

0023 CATALOG (COTS) ITEM WITH SPEC. SHEET SUPPLIED

- 1.0 All new suppliers of this item shall furnish with the first shipment on the purchase order, a drawing, catalog, or specification adequate to permit inspection and/or test of the product supplied.
- 1.1 Unless otherwise stated, when a drawing/specification sheet/catalog has been supplied on a previous purchase order they need not be duplicated for this order.
- 2.0 A certified statement, signed by an authorized representative, that the material furnished complies with the applicable specifications/drawings and requirements of the purchase order shall accompany each shipment.

Revised: MARCH 2009

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0024 CATALOG (COTS) ITEM WITH INSPECTION REQUIREMENTS

- 1.0 All new suppliers of this item shall furnish with the first shipment on the purchase order, a drawing, catalog, or specification adequate to permit inspection and/or test of the product supplied.
- 1.1 Unless otherwise stated, when a drawing/specification sheet/catalog has been supplied on a previous purchase order they need not be duplicated for this order.
- 2.0 The supplier's inspection system shall meet the requirements of ISO 9001:2000 (or later) or MIL-I-45208A.
- 3.0 A certified statement, signed by an authorized representative, that the material furnished complies with the applicable specifications/drawings and requirements of the purchase order shall accompany each shipment.

Revised: MARCH 2009

0025 QUALITY ENGINEERING REVIEW REQUIRED

This is a first time buy of this item and the additional quality requirements necessary to produce a product that will be acceptable to GD SATCOM have not been assigned. Contact the buyer or responsible GD SATCOM quality engineer for instructions before proceeding. GD SATCOM shall provide the supplier with written instructions of the quality requirements on this item.

Revised: AUGUST 2004

0026 SOURCE CONTROL OR QPL ITEM

Certification clearly showing the source (company name and city) of the items being supplied must accompany each shipment. Distributors must provide the manufacturing source as specified on the document. The applicable Qualified Product/Qualified Producer List (QPL) shall be the revision in effect on the date this purchase order was issued.

Revised: MARCH 2009

0027 ITEM CONTROLLED BY PURCHASE ORDER ATTACHMENT

This item is controlled by a separate specification, statement-of-work or other purchase order attachment. Additional quality, certification and documentation requirements may be specified in the purchase order attachment. Required data must be supplied with each shipment.

Revised: AUGUST 2004

0028 GOVERNMENT-INDUSTRY DATA EXCHANGE PROGRAM (GIDEP)

- (A) The Contractor shall participate in the interchange of the Government-Industry Data Exchange Program (GIDEP). Data entered is retained by the program and provided to qualified participants. Compliance with this requirement shall not relieve the Contractor from complying with any other requirement of the contract.
- (B) The Contractor agrees to insert paragraph (A) of this requirement in any subcontract hereunder exceeding \$500,000.00. When so inserted, the word "Contractor" shall be changed to "Subcontractor".
- (C) GIDEP materials, software and information are available without charge from:
GIDEP Operations Center
P. O. Box 8000

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Corona, CA 91718-8000
Phone: (909) 273-4677
FAX: (909) 273-5200
Internet: <http://www.gidep.corona.navy.mil>

Revised: AUGUST 2005

0029 DROP SHIPMENT CERTIFICATION REQUIREMENTS

When items on this purchase order are drop shipped to a location other than the General Dynamics Digital Drive address below, a copy of all certifications and required documentation shall be sent to:

Quality Assurance
General Dynamics
SATCOM Technologies, Inc.
1219 Digital Drive
Richardson, Texas 75081

Revised: MARCH 2009

0030 HIGH RELIABILITY SOLDER

The supplier shall perform soldering and inspection in compliance with the requirements of IPC-A-610 and J-STD-001 Class 3. All soldering and inspection personnel shall be currently certified to the applicable specification. A certificate of compliance shall accompany the shipment.

Revised: AUGUST 2005.

0031 ELECTRO STATIC DISCHARGE (ESD) CONTROL

The supplier shall maintain an Electro Static Discharge (ESD) Control Program in accordance with ANSI/ESD S20.20 for all assemblies and components that may be susceptible to damage by ESD. A certificate of compliance shall accompany the shipment.

Revised: AUGUST 2005.

0032 INSPECTION/TEST DOCUMENTATION REQUIRED

The supplier shall comply with the quality and documentation requirements specified by the purchase order, drawing or specification. Quality documentation for all inspections and/or testing required by the drawing or specification shall be supplied at the time of shipment.

Revised: AUGUST 2009.

0033 PREFERENCE FOR DOMESTIC SPECIALTY METALS.

252.225-7014 PREFERENCE FOR DOMESTIC SPECIALTY METALS (JUN 2005)

As prescribed in 225.7002-3(b)(1), use the following clause:

(a) Definitions. As used in this clause—

- (1) "Qualifying country" means any country listed in subsection 225.872-1 of the Defense Federal Acquisition Regulation Supplement.

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(2) "Specialty metals" means—

(i) Steel—

(A) With a maximum alloy content exceeding one or more of the following limits: manganese, 1.65 percent; silicon, 0.60 percent; or copper, 0.60 percent; or

(B) Containing more than 0.25 percent of any of the following elements: aluminum, chromium, cobalt, columbium, molybdenum, nickel, titanium, tungsten, or vanadium;

(ii) Metal alloys consisting of nickel, iron-nickel, and cobalt base alloys containing a total of other alloying metals (except iron) in excess of 10 percent;

(iii) Titanium and titanium alloys; or

(iv) Zirconium and zirconium base alloys.

(b) Any specialty metals incorporated in articles delivered under this contract shall be melted in the United States or its outlying areas.

(c) This clause does not apply to specialty metals—

(1) Melted in a qualifying country or incorporated in an article manufactured in a qualifying country; or

(2) Purchased by a subcontractor at any tier.

(End of clause)

ALTERNATE I (APR 2003)

As prescribed in 225.7002-3(b)(2), substitute the following paragraph (c) for paragraph (c) of the basic clause, and add the following paragraph (d) to the basic clause:

(a) This clause does not apply to specialty metals melted in a qualifying country or incorporated in an article manufactured in a qualifying country.

(b) The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts for items containing specialty metals.

0034 RESTRICTION ON ACQUISITION OF BALL AND ROLLER BEARINGS.

252.225-7016 RESTRICTION ON ACQUISITION OF BALL AND ROLLER BEARINGS (MAR 2006)

As prescribed in 225.7009-5, use the following clause:

(a) *Definitions.* As used in this clause -

(1) "Bearing components" means the bearing element, retainer, inner race, or outer race.

(2) "Component," other than bearing components, means any item supplied to the Government as part of an end product or of another component.

(3) "End product" means supplies delivered under a line item of this contract.

(b) Except as provided in paragraph (c) of this clause, all ball and roller bearings and ball and roller bearing components delivered under this contract, either as end items or components of end items, shall be wholly manufactured in the United States, its outlying areas, or Canada. Unless otherwise specified in this contract, raw materials, such as preformed bar, tube, or rod stock and lubricants, need not be mined or produced in the United States, its outlying areas, or Canada.

(c) The restriction in paragraph (b) of this clause does not apply to ball or roller bearings that are acquired as—

- (1) Commercial components of a noncommercial end product; or
- (2) Commercial or noncommercial components of a commercial component of a noncommercial end product.
- (d) The restriction in paragraph (b) of this clause may be waived upon request from the Contractor in accordance with subsection 225.7009-4 of the Defense Federal Acquisition Regulation Supplement.
- (e) The Contractor shall insert the substance of this clause, including this paragraph (e), in all subcontracts, except those for-
 - (1) Commercial items; or
 - (2) Items that do not contain ball or roller bearings.

(End of clause)

0035 DRILL TAPE QA REQUIREMENTS

Results of 100% CMM inspection of hole locations on the assembled drill tape is to be provided.

Segments are to be assembled for this inspection, utilizing connector assemblies (splices) and the hardware specified.

A hole on the “inboard” end of the first segment shall be the zero datum point for this inspection. Identify the datum hole for future reference. Inspection may be performed in stages (i.e. segments 3, 4, & 5 data then segments 5, 6 & 7 data) as long as the data can be evaluated as if continuous.

Match mark the splices to the drill tape segments to insure repeatable reassembly in the field.

Revised: JUNE 2006.

0036 NONCONFORMING MATERIAL

Material Review Board (MRB) authority to disposition Use-As-Is and Repair is withheld for any characteristic defined in buyer’s or buyer’s customer documents. In addition the scrap of any buyer owned material must be authorized by General Dynamics, SATCOM Technologies Material Review Board. Submit all requests for MRB through the Subcontract Administrator (buyer) identified in the Purchase Order.

Revised: APRIL 2009

0037 SPECIAL PROCESS REQUIREMENTS

The supplier is responsible to ensure that all special processes, performed either by the supplier or their subcontractor, be approved by General Dynamics SATCOM Technologies, and/or are accredited by the National Aerospace and Defense Contractors Accreditation Program (NADCAP). This requirement does not absolve the supplier of the responsibility to ensure that all purchase order requirements are being met. Any detailed information regarding the NADCAP accreditation process, including the audit schedule, can be obtained from Performance Review Institute (PRI) at <http://www.pri.sae.org>.

Effective immediately, all relevant drawing and purchase order specifications must be included within the flow down requirements to the processing subcontractors. Where specifications require dimensional results for validation, objective evidence must be recorded, reviewed and maintained to assure process requirements are met. No

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attribute, pass/fail results or general certificates of conformance will be acceptable. Retain all Nondestructive Testing (NDT) records and results, including x-ray film, for a minimum of five (5) years from product shipment. Casting x-ray film are to be retained by the foundry.

Revised: JANUARY 2007

0038 LOWER LEVEL PIECE PART REQUIREMENTS

The requirements for this assembly are applied at the lower level piece parts. See quality codes assigned to each component at its' individual part number level.

Revised: APRIL 2007

0039 CERTIFICATION OF COMPLIANCE FOR PAINTING

A certification of compliance is required to ensure items supplied have been painted to the specification required by the drawing and PO. The certificate shall include:

- Suppliers name and address
- Painting procedure (if called out on the drawing).
- General Dynamics Purchase Order number.
- Measured thickness values (if provided by drawing or associated specification).
- Measured temperature and relative humidity of the paint area at the time of painting.
- Certification of color match and gloss.
- The signature of the individual authorized to certify compliance.

0040 CERTIFICATION OF COMPLIANCE FOR WELDING

Personnel performing welding require certification per the applicable specifications. Welding Procedure Specification(s) and Procedure Qualification Record(s) and welder certifications shall be provided prior to the start of welding. Other requirements may be specified on the PO or the drawing.

The Welding Certificate shall include:

- Suppliers name and address
- Welding specification (if called out on the drawing).
- Visual acuity results (if required by the specification).
- General Dynamics Purchase Order number.
- Welder Procedure Specification(s), and Procedure Qualification Record(s) used.
- The signature of the individual authorized to certify compliance.

0041 CONTROL OF GOVERNMENT PROPERTY

The supplier will maintain and administer a customer property control system in accordance with sound industrial practice. Government Property shall be controlled in accordance with Part 45 of the Federal Acquisition Regulation (FAR) and is hereby incorporated by reference, to control, protect, preserve, and maintain all GOVERNMENT property in the supplier's possession.

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0042 NAS 410 QUALIFIED INSPECTION

Personnel performing Nondestructive Testing (NDT) and examination shall be qualified and certified in accordance with NAS 410, Certification and Qualification of Nondestructive Test Personnel.

Personnel making accept/reject decisions shall be certified to level 2 or 3 in the applicable (radiographic, liquid penetrant, magnetic particle, ultrasonic) inspection method. Certifications for the personnel performing the tests, and the level 2 or 3 making accept/reject decisions, shall accompany the shipment.

0043 PROHIBITION OF TIN

Unless otherwise specified in a GD SATCOM Technologies – Richardson Facility supplied drawing; the use of Pure Tin Plated finishes is strictly PROHIBITED. Any Tin Plating or Tin Solder processes shall contain NO LESS than 3 percent LEAD composition, unless specifically authorized in writing by the GD SATCOM Technologies – Richardson Facility Procurement Agent.

A certificate of compliance signed by an authorized company representative shall accompany each shipment. This certification shall clearly state if the product being supplied is compliant with the “Prohibition of Tin” statement above or if the product contains “Pure Tin”.

Items certified as RoHS compliant do not meet the prohibition of tin certification requirement and are subject to being rejected if appropriate certification is not received.

Note: If another Tin Whisker Mitigation strategy (i.e.: matte solder finish, nickel under plating, annealing, or solder dipping (with tin/lead), conformal coating, etc.) is being used, it must be so stated on the certificate of compliance.

When any change in product or part number is made or planned which would incorporate a lead (Pb) - free finish or lead (Pb) - free solder, the seller is required to inform the GD SATCOM Technologies – Richardson Facility buyer.

Revised: APRIL 2009

0044 MATERIAL CERTIFICATION OF ANALYSIS

Certified test and/or inspection reports for the chemical composition and physical properties of the material being supplied must accompany the shipment.

Revised: AUGUST 2009

0045 PRINTED CIRCUIT BOARD CLASS 3

The supplier must furnish test report and a signed statement that items being furnished comply with requirements of purchase order and IPC-6012 Class 3, with IPC-A-600 Class 3 acceptability.

Revised: NOVEMBER 2009

0046 PRINTED CIRCUIT BOARD CLASS 3 WITH MICROSECTIONED COUPON

The supplier must furnish test report, microsectioned coupon and a signed statement that items being furnished comply with requirements of purchase order and IPC-6012 Class 3, with IPC-A-600 Class 3 acceptability.

Revised: NOVEMBER 2009

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0047 COUNTERFEIT PARTS

The seller shall ensure that all parts, electronic components, and mechanical hardware procured to fulfill these GDST Richardson purchase order requirements include a certificate of conformance from the Original Equipment Manufacturer or a Franchised Distributor. A certificate from a Franchised Distributor must also establish traceability to the Original Equipment Manufacturer.

Revised: NOVEMBER 2009

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