



EEI Manufacturing Services
703 Grand Central Street
Clearwater, FL 33756
Cage Code 1B2W5

Form: F-7-400.6 Date: 6/1/2009 Rev: E
Written By: David Montgomery
Modified by: William Miller
Approved by: William Miller

PURCHASE ORDER ATTACHMENT "Q"

Supplier Quality Assurance Flow down Clauses

(The coded Requirements listed within this Attachment are applicable to material furnished under the Purchase Order upon which they are referenced. If a code referenced on the Purchase Order cannot be located within this document, notify the appropriate EEI Manufacturing Services Purchasing agent for clarification prior to shipment of product. Failure to comply with these requirements, when referenced on the Purchase Order, will be cause for rejection of material at EEI Manufacturing Services Receiving Inspection. In the event of conflict between the requirements listed herein and Purchase Order text, the Purchase Order shall prevail)

SQ1 QUALITY SYSTEMS

The subcontractor/supplier shall have and maintain a quality system in accordance to one of the following; ISO 9001 (latest revision), MIL-I-45208, AS 9100 (latest revision), or EEI Manufacturing Services approved equivalent. The quality system shall be subject to audit and approval by EEI Manufacturing Services or its customers.

SQ2 INTERNATIONAL TRAFFIC IN ARMS REGULATIONS

Seller agrees to comply with all export regulations and the international traffic-in-arms regulations (ITAR) including but not limited to, part 122 entitled "Registration of Manufacturing and Exporter" and part 130 entitled "Political Contributions, Fees and Commissions." In the event Seller is supplying defense article hereunder, Seller agrees to maintain a valid and current Directorate of Defense Trade Controls (DDTC) registration. Seller shall provide its DDTC registration status (whether registered or not with) and expiration date to Purchaser and promptly advise of any updates or changes to such information, in the format requested by purchaser.

SQ3 OFFSHORE APPROVAL

No subcontracts or purchase orders which involve design, manufacture, production, assembly or test in a location not in the United States, of equipment, assemblies, accessories or parts which are not covered by a Specification or a Standard listed in MIL-P-11268, MIL-E-16400 or MIL-E-5400 shall be made under this contract without specific approval of the contracting officer

SQ4 RIGHT OF ENTRY

EEI Manufacturing Services, its customers and regulatory agencies reserve the right of entry to any place necessary to determine and verify the quality of contracted work, records and material.

SQ5 SOLDERABILITY

Parts shall be capable of meeting the solderability requirements of ANSI/J-STD-002 or equivalent. Surface mount devices shall be pretinned with no copper, gold, or base metal visible on the solderable surface. **NOTE:** *This requirement is not applicable to parts governed by military specifications or standards. Failure of the parts/components to meet the acceptance criteria of the above applicable specification will be cause for rejection.*

This document contains confidential and proprietary information of **EEI Manufacturing Services**. Neither this document nor the information contained herein are to be reproduced, distributed, used or disclosed, either in part or in whole without the specific written consent and authorization of **EEI Manufacturing Services**.



EEI Manufacturing Services
703 Grand Central Street
Clearwater, FL 33756
Cage Code 1B2W5

Form: F-7-400.6 Date: 6/1/2009 Rev: E
Written By: David Montgomery
Modified by: William Miller
Approved by: William Miller

SQ6 CONTROL OF ESD

All ESD sensitive components shall be handled, packaged, marked, and shipped to EEI Manufacturing Services' in accordance with the requirements specified in ANSI/ESD-S20.20.

SQ7 IDENTIFICATION

Parts and/or material provided shall be identified with the part number, revision, and manufacturer's cage code in accordance with MIL-STD-130 and/or drawing/specification requirements. Packing slips and lowest level of packaging shall be marked as a minimum with the following:

- 1) Manufacturer
- 2) Manufacturer Part Number
- 3) Customer Part Number
- 4) Date Code
- 5) Quantity

SQ8 CONFIDENTIAL IDENTIFICATION

Subcontracts, purchase orders, drawings, travelers and other related type documents provided to offshore vendors will not carry any part number identification, nor will they reveal the Government prime contract number. No reference to DOD shall be made on the offshore procurement. Offshore manufactured parts are not to be identified with the part number designation until after they are received in the United States. If Government Source Inspection has been imposed on this order, Government verification will be required.

SQ09A TEST/INSPECTION DATA

Each completed part/assembly delivered, must be functionally and/or electrically tested, as applicable. Each item tested must be identified with, as a minimum, part number, revision and a unique serial number. The test data, which has the actual results of each parameter tested, will also have the part number, revision and the associated serial number. A copy of any test/inspection data with each shipment covering the parts shipped must be included. Any calculations, assumptions or failure analysis used to substantiate test results must be detailed

SQ09B INSPECTION SYSTEM REQUIREMENTS FOR ISO 9001

The contractor's inspection system shall conform to the requirements of ISO 9001 (latest version) and is subject to review and approval at all times by EEI Manufacturing Services. AS9100 or MIL-I-45208 approval may be substituted for ISO 9001 (latest version)

SQ10 FIRST ARTICLE INSPECTION REPORT (FAIR) / PREPRODUCTION SAMPLE PARTS

A supplier furnishing material manufactured to an assembly drawing will include a First Piece Inspection Data Report with the first shipment to EEI Manufacturing Services. The First Article Package must consist of the first production piece, the documented inspection results, material certifications, and special processing certifications as applicable. The Seller shall submit a First Article for Inspection and Test as applicable on the first initial production unit(s). When multi-cavity molds/dies/ and or tooling are used, First Article shall be required for each cavity.

A new First Article Inspection shall be required for any of the following conditions: 1) a significant design or process change has been made that affects the original First Article and is applicable only to those characteristics affected by the change; 2) an item has not been produced for a period of 12 months; 3) a change in facilities utilized to produce the item has taken place; 4) initial First Article rejection for re-inspection of those characteristics affected.

This document contains confidential and proprietary information of **EEI Manufacturing Services**. Neither this document nor the information contained herein are to be reproduced, distributed, used or disclosed, either in part or in whole without the specific written consent and authorization of **EEI Manufacturing Services**.



EEI Manufacturing Services
703 Grand Central Street
Clearwater, FL 33756
Cage Code 1B2W5

Form: F-7-400.6 Date: 6/1/2009 Rev: E
Written By: David Montgomery
Modified by: William Miller
Approved by: William Miller

The Contractor's FAIR report shall provide as a minimum: the P/O or Contract number, part number, revision level, part name, Contractor's name, drawing requirements including tolerance, method used to obtain results of each measurement. If the part requires functional testing, in addition to the actual test results, the Contractor shall furnish a diagram of the test setup, the equipment used the tolerance of the equipment, and the calibration date of the equipment used.

SQ11 DUAL-IN-LINE PACKAGE

Parts shall be supplied in tubes which will vary depending on parts size. These tubes must be suitable for use with automatic handling equipment.

SQ12 MOISTURE SENSITIVE DEVICES

Plastic encapsulated components that are classified as being sensitive to moisture absorption shall be supplied in accordance with IPC/JEDEC J-STD-033.

SQ13A SAFETY

The material must be accompanied by a copy of Material Safety Data Sheet as specified in 29 C.F.R. 1910.1200, or an exemption to this standard signed by a representative of your company.

SQ13B HAZARD WARNING LABELS

Each individual container of toxic substances or hazardous chemicals to be delivered hereunder shall bear a label from the manufacturer, importer, distributor, or supplier with the chemical name and hazard warning as defined by O.S.H.A. Hazard communication Standard 29 CFR 1910, 1200 and state employee "Right to know" laws.

SQ14 WIRE

Wire and/or cable shall be supplied in one continuous length per spool. Splices are allowed providing the joint does not exceed the overall diameter of the wire or cable. Minimum lengths of 100 feet are required between splices. All spools will be identified as to lengths on them.

SQ15 PRINTED CIRCUIT BOARDS / COUPONS REQUIRED

Printed Circuit Boards shall meet the requirements of the applicable specification as noted on the drawing. Results of microsection analysis or Group A test data per applicable specification shall accompany each shipment of boards. Electrical test data, C of C, and inspection data shall be included with each shipment. Quality conformance test coupons from the panels corresponding to the boards produced from them shall accompany the boards shipped.

These coupons shall be traceable to the boards produced from the panels. First article dimensional data shall be included with the first shipment of each new PCB or Rev. change. A solderability sample for each date/lot code shall be included with each shipment. Any deviations shall require advance EEI Manufacturing Services approval.

SQ16 PRINTED CIRCUIT BOARDS / NO COUPONS REQUIRED

Printed Circuit Boards shall meet all drawing requirements. Suppliers shall send written results of microsection inspection, a sample thermal stressed microsection for each date/lot code shipped, and a C of C. Minimum plated copper in holes shall be .001" unless otherwise noted on drawing or specification. PCB's shall meet the solderability requirements per ANSI/J-STD-003 Class 2 unless otherwise noted on applicable drawings. A solderability sample for each date/lot code shall be included with each shipment. First article dimensional data shall be included with the first shipment of each new PCB or Rev. change. Any deviations shall require advance EEI Manufacturing Services approval.

This document contains confidential and proprietary information of **EEI Manufacturing Services**. Neither this document nor the information contained herein are to be reproduced, distributed, used or disclosed, either in part or in whole without the specific written consent and authorization of **EEI Manufacturing Services**.



EEI Manufacturing Services
703 Grand Central Street
Clearwater, FL 33756
Cage Code 1B2W5

Form: F-7-400.6 Date: 6/1/2009 Rev: E
Written By: David Montgomery
Modified by: William Miller
Approved by: William Miller

SQ17 SHIP-TO-STOCK (For EEI Manufacturing Services internal use only)

Suppliers and/or products certified by EEI Manufacturing as Dock to Stock.

SQ18 SHELF LIFE IDENTIFICATION

The supplier shall mark the expiration date on articles that are subject to shelf life deterioration, and not deliver articles with less than 50% of shelf life remaining at the time of receipt by buyer. Marking shall include cure date, assembly date, expiration date, lot number, and any applicable military, prime contractor and/or EEI specification number. The marking must be made by decal, rubber stamp or tag.

SQ19A CUSTOMER INSPECTION

Material furnished on this purchase order is subjected to Customer acceptance at the Purchaser's plant.

SQ19B GOVERNMENT SOURCE INSPECTION

All items on this purchase order are subject to Government source inspection at the Seller's plant prior to shipment. Seller shall provide the Government Representative ten (10) days, advanced notification of the event. Upon receipt of this purchase order, Seller shall promptly notify the Government Representative who normally services your plant and provide the representative with a copy of the purchase order so that appropriate planning for Government inspection can be accomplished.

If no Government Representative services the Seller's plant, the seller shall notify the nearest Defense Contract Administration Service Office or other appropriate Government contract office. In the event a representative or office cannot be located, Seller shall notify the Purchaser's Procurement office immediately.

SQ19C EEI MANUFACTURING SOURCE INSPECTION

EEI Manufacturing Services source inspection at supplier's facility is required prior to shipment of any parts/material on this purchase order. Supplier shall notify the EEI Manufacturing Services buyer of the required date for EEI Manufacturing Services source inspection. Adequate time for arrangement must be allowed.

SQ20 MATERIAL REVIEW BOARD AUTHORITY

Seller is NOT authorized to conduct Material Review Board Authority on this Purchase Order. Any nonconformance to the purchase order, product drawing, specification, or other applicable documents must be submitted to the purchaser, through the Purchaser's Procurement Organization, for the Purchaser's MRB approval prior to shipment. This does not preclude the seller from conducting preliminary reviews to establish rework to drawing / contract requirements and/or scrap dispositions. ***The Purchaser reserves the right to require root cause of the nonconformance and describe the implemented corrective action taken by the Seller.***

SQ21 CALIBRATION OF ACCEPTANCE / TEST EQUIPMENT

The supplier must maintain a calibration system that is in compliance with ANSI/NCSL Z 540-1-1994. Calibration records must show traceability of the standards used for calibration to the National Institute of Standards and Technology (NIST).

This document contains confidential and proprietary information of **EEI Manufacturing Services**. Neither this document nor the information contained herein are to be reproduced, distributed, used or disclosed, either in part or in whole without the specific written consent and authorization of **EEI Manufacturing Services**.



EEI Manufacturing Services
703 Grand Central Street
Clearwater, FL 33756
Cage Code 1B2W5

Form: F-7-400.6 Date: 6/1/2009 Rev: E
Written By: David Montgomery
Modified by: William Miller
Approved by: William Miller

SQ22 SPECIAL PROCESSES, SUBTIER SUPPLIERS, SUBCONTRACTORS, AND PROCESSORS

The Seller shall utilize only Purchaser or NADCAP (National Aerospace and Defense Contractors Accreditation Program) approved special process sources as directed by EEI Manufacturing Services Quality Assurance Organization or as otherwise directed by EEI customers for approved special processors. This is included but not limited to all heat treatment, welding, brazing, soldering, organic and inorganic coatings, plating, surface coating, magnetic particle inspection, penetrant inspection, eddy current, ultrasonic examination, radiographic examination, conditioning and finishing required by this purchase order. If, due to geographical location, an approved special process source is not available, the Seller shall contact the Purchaser's Procurement Organization for a specific source to be used.

SQ23 COMPLIANCE TO DFARS 252.225-7014 WITH ALT 1, PREFERENCE FOR DOMESTIC SPECIALTY METALS

As prescribed in 225.7002-3(b)(1), use the following clause:
PREFERENCE FOR DOMESTIC SPECIALTY METALS (JUN 2005)

(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.

(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.

SQ24 PROHIBITED MATERIALS

Seller agrees to comply with regulations that prohibit certain materials from use in high reliability electronic systems and flight hardware.

EEI flows down the following list as identified materials being prohibited from use in its hardware:

1. Pure Tin Plating
2. Cadmium Plating
3. Zinc Plating

This document contains confidential and proprietary information of **EEI Manufacturing Services**. Neither this document nor the information contained herein are to be reproduced, distributed, used or disclosed, either in part or in whole without the specific written consent and authorization of **EEI Manufacturing Services**.



EEI Manufacturing Services
703 Grand Central Street
Clearwater, FL 33756
Cage Code 1B2W5

Form: F-7-400.6 Date: 6/1/2009 Rev: E
Written By: David Montgomery
Modified by: William Miller
Approved by: William Miller

SQ25 ON TIME DELIVERY

EEI Manufacturing Services requires that all suppliers adhere to the delivery time window of no more than five (5) days early and zero (0) days late.

SQ26 RECORD RETENTION

Supplier shall control and retain records and documents which are created by and/or acquired for the purpose of complying with the contract for a period of (7) seven years unless otherwise noted on the contract.

SQ27 PRESERVATION/PACKAGING

Parts and/or material furnished shall be preserved, packed and packaged in a "best commercial" manner to prevent deterioration and/or damage during handling and shipping. Specific requirement deviating from "best commercial" method shall be defined within the purchase order.

SQ28 FOREIGN OBJECT DEBRIS (FOD) PROGRAM

EEI Manufacturing Services suppliers shall ensure work is accomplished in a manner preventing foreign objects or material in deliverable items. EEI Manufacturing Services supplier's shall maintain material handling, parts protection, work area housekeeping, tool accountability, hardware accountability, parts and materials in a manner sufficient to preclude the risk of FOD incidents. The supplier's FOD Program shall be subject to audit and EEI Manufacturing Services or EEI Manufacturing Services customers review and/or approval.

SQ29 TIME AND TEMPERATURE SENSITIVE MATERIAL

Time and temperature storage conditions must be attached to the packing sheet and accompany each shipment to be delivered hereunder. The outer-most shipping box must be marked to indicate "Time and Temperature sensitive Material" and "Temperature storage range in degrees"

SQ30 TRACEABILITY

Material and processes used must be traceable by record to the contractually imposed drawings and functional test configurations used during manufacture. Each unit of product delivered must be uniquely identifiable to the contractor's traceability records. Such records shall be retained by the contractor for a period of seven (7) years after the completion of this purchase agreement/order or as otherwise specified by EEI Manufacturing Services.

SQ31 CHEMICAL AND MECHANICAL PROPERTIES DOCUMENTATION

The Seller shall submit with each shipment for each melt, heat lot or run, evidence attesting to chemical and/or mechanical property requirements of the applicable drawing, specification and purchase order.

Evidence of compliance shall be transmitted in the following specified format:

- (a) Chemical composition, by an actual composition analysis test report, except that wrought aluminum may be certified to the specific chemical ranges.
- (b) Chemical composition, by a Certificate of Compliance to the specification requirements. All applicable material specifications must be identified on this document.
- (c) Mechanical properties, by an actual test results report.
- (d) Mechanical properties, by a Certificate of Compliance to the specification requirements. All applicable material specifications must be identified on this document.

This document contains confidential and proprietary information of **EEI Manufacturing Services**. Neither this document nor the information contained herein are to be reproduced, distributed, used or disclosed, either in part or in whole without the specific written consent and authorization of **EEI Manufacturing Services**.



EEI Manufacturing Services
703 Grand Central Street
Clearwater, FL 33756
Cage Code 1B2W5

Form: F-7-400.6 Date: 6/1/2009 Rev: E
Written By: David Montgomery
Modified by: William Miller
Approved by: William Miller

SQ32 STATISTICAL PROCESS CONTROL PLAN AND RECORD

The Seller at their option may furnish a Statistical Process Control Plan and Record with each shipment in lieu of an L.I.P.R. as objective evidence of product compliance to the purchase order requirements. The SPC plan submitted by the Seller shall meet the same minimum documentation requirements as the L.I.P.R. except those characteristics selected by the Seller will have a Cpk index number if variables charting is being performed or a, p, c, u value if attribute charting is being used. Note: Substitution of L.I.P.R. characteristics with SPC characteristics shall be on a one-for-one basis. Unless otherwise stipulated by the Purchaser, a minimum Cpk value of 1.33 is required on all variable characteristics subject to SPC. The SPC Plan and Record is also subject to acceptance by CMP Quality Organization.

SQ33 CERTIFICATE OF CONFORMANCE

The supplier shall provide a Certificate of Conformance with each shipment. The certificate shall contain as a minimum; (1) an identification of the material shipped, (2) a statement that the material conforms to purchase order requirements and that all supporting data is on file at the supplier's facility for review, (3) the EEI Manufacturing Services purchase order number, (4) the signature and title of an authorized agent for the supplier, (5) any lot/batch code if applicable.

SQ34 NON-CONFORMING MATERIAL

Requirements for flow down on Non-conforming Material shall be at a minimum compliant with ISO 9001:2000 Standards. Segregation of suspect hardware is required upon discovery.

SQ35 X-OUT BOARDS

Minimum allowable quantity of X-out boards is one (1) per panel of sixteen (16). In lesser sized panels it will be to the discretion of EEI as to the acceptable level, below 6 there shall be no X-Out boards permitted.

This document contains confidential and proprietary information of **EEI Manufacturing Services**. Neither this document nor the information contained herein are to be reproduced, distributed, used or disclosed, either in part or in whole without the specific written consent and authorization of **EEI Manufacturing Services**.