



Supplier Quality Requirements

General Requirements (Pages 1&2 are applicable to all Purchase Orders)

The following Supplier Quality Requirements and Codes, with all of their terms and conditions, become an integral part of PSEMC Purchase Orders (PO), to the contracted supplier and **where applicable, are to be flowed down to the supplier's sub-tier suppliers**. The Supplier Quality Codes (SQC's) as noted on the PO are specifically applicable. *Any deviations or modifications to existing Purchase Orders are to be transmitted through PSEMC purchasing and will require a Change Order. Verbal or otherwise unofficial instruction to deviate from the Purchase Order is not allowed.* Only a legible facsimile copy (fax) or electronic transmittal of the Change Order issued by PSEMC purchasing is considered adequate authority to proceed.

Supplier Performance

Pacific Scientific-Energetic Materials Company (PSEMC) will evaluate and rate suppliers based on the quality of their product, delivery to schedule, survey results, documentation errors, and timeliness of responses to requests for corrective action. A history of substandard ratings may be cause for removal of the supplier from the PSEMC Approved Vendor List (AVL). It is the objective of PSEMC to receive defect-free parts and complete, error-free documentation on or before scheduled delivery dates.

Nonconforming Material, MRB, Variances and Requests for Deviation

The supplier shall maintain a system of material identification and segregation to ensure that non-conforming material is not intermingled with accepted material. *The supplier is not authorized to perform material review board (MRB) actions or disposition of non-conforming material with the intent of delivering such material without the express written authorization of PSEMC purchasing.* Recommended dispositions or departures from drawings or specifications must be forwarded to PSEMC for approval. The use of the PSEMC Vendor Information Request (VIR) form is the preferred method to transmit such requests and is located on the PSEMC website. The PSEMC Buyer must approve any departures from purchase order requirements.

Previous dispositions shall not be considered as precedence. PSEMC may request the supplier to submit cause and corrective action on discrepancies related to this order.

Any material rejected by PSEMC and resubmitted by supplier, shall be identified as re-submitted material and must reference the PSEMC original rejection document and detail all actions taken to correct and prevent recurrence of the discrepancy.

Corrective Action Requests

The supplier or the supplier's sub-tier suppliers, shall respond to PSEMC requests for corrective action within the timeframe specified, and take timely and effective action to eliminate and prevent the root cause underlying the deficiencies.

Supplier Documentation Control

The supplier shall provide all required documentation with each shipment that is legible and complete. Whenever PSEMC forms are utilized, suppliers are to use only the current revision forms found on the PSEMC website (or provided by PSEMC at the time of use) and not retain hardcopies of forms or other documents that may become outdated. ***Corrections made to any documents provided to PSEMC will require a single line-through the error with the correction next to it, along with the initials of the authorized individual and date corrected.*** The use of write-overs, pencil, whiteout, or correction tape is not allowed. Additions or notations to sub tier provided documentation (such as PSEMC PO# references on sub-tier certifications) are allowed if supplier includes initials (or stamp) and date of the authorized individual making the notation.

Records Retention and Material Traceability

The supplier shall retain a complete set of all records required by this document, as specified in the PO, Statement of Work, or as defined by the applicable PSEMC SQC. These records shall be made available to PSEMC upon request. ***All applicable material certifications shall be maintained and will be made available to PSEMC upon request. Note: Supplier is to notify PSEMC before disposing of these records regardless of specified retention time.***

Notification of Changes

The Supplier shall notify PSEMC prior to any changes to the Suppliers or any sub-tier changes that affect purchase order requirements. A change is identified as any changes in materials, process, sub-tier suppliers, inspection testing methods, techniques or facility changes prior to the start of fabrication (notification is defined as a minimum of ninety (90) calendar days prior to change). Such changes or events may negate all previous PSEMC supplier qualifications, certification, approval status, and may require re-qualification or re-submittal of a First Article. Requests are to be submitted on PSEMC form# 2030, Vendor Information Request (VIR), available at psemc.com.

Restrictions on Pure Tin Parts or Solder

The use of "pure tin" on any delivered product is prohibited unless specifically authorized. Product changes or conversion of products due to the restrictions on the use of hazardous substances or mandates, as well as associated process changes are prohibited. Pure tin solder or its use on any product delivered to PSEMC is prohibited due to the possibility of the "tin whisker" effect that can occur over time.

PSEMC SUPPLIER QUALITY CODES

SQC 04 – MIL-I-45208 (Quality System Requirements)

Supplier's Quality System shall comply with MIL-I-45208, (Military Specification for Quality System Requirements).

SQC 06 – Source Inspection and/or Customer Verification of Subcontracted Product

PSEMC or PSEMC's customer representative may perform inspection/test of product/services at the Supplier's facility or your sub-tier processor, as delegated prior to each shipment. PSEMC reserves the right to conduct (or waive) surveillance of work-in-progress, inspection and/or test at points selected by PSEMC quality. Waivers shall not relieve the Supplier's requirement to fully comply with the specifications and all of the terms and conditions of the Contract/Purchase Order.

The Supplier shall furnish reasonable access to relative contract, design and specification data, and the necessary equipment and space to perform any such inspections/tests.

SQC 07 – Government Source Inspection

Government inspection is required at your facility or your sub-tier processor, as delegated. Upon receipt of this order, promptly furnish a copy to the Government representative or designated DOD Quality Assurance function, as specified on the Purchase Order, who normally services your plant. If none exists, send a copy to the nearest Army, Navy, Air Force or Defense Supply Agency Office to make arrangements. In the event the representative or office cannot be located, the PSEMC buyer should be notified immediately.

SQC 08 –MIL-STD-45662, ISO 10012 or ANSI Z540-1 (Calibration System Requirements)

The Supplier shall meet and maintain a calibration system in conformance with the Calibration System Requirements of MIL-STD-45662, ISO 10012-1 or ANSI Z540-1.

SQC 09 – ISO-9000: 2000 (Quality System Requirements)

The Supplier shall maintain a Quality system in conformance with the requirements of ISO 9000:2000 or equivalent standard.

SQC 25 – Process Certifications (AVL Control)

Suppliers or their sub-contractors who perform any processes listed on the purchase order, referenced drawing, or specifications must be approved by PSEMC and be included in the PSEMC Approved Vendors List (AVL) for all processes to be performed in compliance with this order.

Each shipment shall be accompanied by one legible copy of a signed Supplier Certificate of Conformance (PSEMC Form 836 or the vendor's equivalent) that identifies the processes performed to specification, or sub-tier supplier certification, as applicable. Electronic signature or signed validation is acceptable unless otherwise specified by contract. ***The supplier certificate shall include the following as a minimum:***

1. Supplier's name and address
2. PSEMC P.O. Number
3. Part number, including dash and rev. letter
4. Quantity
5. Lot number, batch numbers, or serial numbers, as applicable
6. Process name and specification number with type and class
7. Name and address of agency that performed the process (if other than the supplier).

Objective evidence of all Process Certifications shall be retained and will be made available to PSEMC and/or the Government upon request.

SQC 25A – Process Certification (Non-AVL)

Suppliers or their sub-contractors who perform any processes listed on the purchase order, referenced drawing, or specifications must provide certifications for all processes performed in compliance with this order.

Each shipment shall be accompanied by one legible copy of a signed Supplier Certificate of Conformance (PSEMC Form 836 or the vendor's equivalent) that identifies the processes performed to specification, or sub-tier supplier certification, as applicable. Electronic signature or signed validation is acceptable unless otherwise specified by contract. ***The supplier certificate shall include the following as a minimum:***

1. Supplier's name and address
2. PSEMC P.O. Number
3. Part number, including dash and rev. letter
4. Quantity

5. Lot number, batch numbers, or serial numbers, as applicable
6. Process name and specification number with type and class
7. Name and address of agency that performed the process, if other than the supplier.

Objective evidence of all Process Certifications shall be retained and will be made available to PSEMC and/or the Government upon request.

SQC 26 – Certificate of Age/Environment Sensitive Material (50% Shelf Life)

Limited shelf life items must have a minimum of 50% of the rated shelf life (if shelf life is established) remaining at the time of receipt, *unless otherwise specified on the purchase order*. Each shipment shall be accompanied by one legible copy of an approved Supplier Certificate of Conformance (PSEMC form 836 or the vendor’s equivalent), which certifies that all requirements of the Purchase Order have been complied with, and ***will contain the following as a minimum:***

1. Supplier’s name and address
2. PSEMC Purchase Order Number
3. Part number, dash & rev. letter (if applicable)
4. Material name or type
5. Quantity
6. Material lot or identification number
7. Date of manufacture (Date code on container is acceptable).
8. Start and length of shelf life or expiration date (marking on the individual container is an acceptable alternate). If shelf life is determined to be unlimited, expiration date will be identified as “unlimited” or “NE” (indicating no expiration).
9. Storage temperature, if other than room ambient

SQC 26A – Certificate of Age/Environment Sensitive Material (80% Shelf Life)

Limited shelf life items must have a minimum of 80% of the rated shelf life (if shelf life is established) remaining at the time of receipt, *unless otherwise specified on the purchase order*. Each shipment shall be accompanied by one legible copy of an approved Supplier Certificate of Conformance (PSEMC form 836 or the vendor’s equivalent) which certifies that all requirements of the Purchase Order have been complied with, and ***will contain the following as a minimum:***

1. Supplier’s name and address

2. PSEMC Purchase Order Number
3. Part number, dash & rev. letter (if applicable)
4. Material name or type
5. Quantity
6. Material lot or identification number
7. Date of manufacture (Date code on container is acceptable).
8. Start and length of shelf life or expiration date (marking on the individual container is an acceptable alternate) If shelf life is determined to be unlimited, expiration date will be identified as “unlimited” or “NE” (indicating no expiration).
9. Storage temperature, if other than room ambient

SQC 27 – Record Retention Requirement-10 year

The supplier shall retain a set of all records required by this document for a period of 10 years minimum unless otherwise specified in the PO.

SQC 27A – Record Retention Requirement-5 year

The supplier shall retain a set of all records required by this document for a period of 5 years minimum unless otherwise specified in the PO.

SQC 28 – Certificate of Compliance (Non-Age Sensitive Material)

Shipment of non-age sensitive material shall be accompanied by one legible copy of an approved supplier certification, using Supplier Certificate of Conformance (PSEMC Form 836 or the supplier’s equivalent), which certifies that all requirements of the Purchase Order have been complied with. ***The certificate shall contain, as a minimum, the following information:***

1. Supplier’s name and address
2. PSEMC P.O. number
3. PSEMC Part number (if referenced on the PO) and Vendor #, including dash and revision letters
4. Date code (applicable to electronics only)
5. Quantity
6. Lot number and serial numbers, if applicable

SQC 28A – Certificate of Compliance (Special Distributors)

Distributors of material used for deliverable product shall be on the PSEMC Approved Vendors List and must comply with all the requirements set forth in clause SQC 28 above, plus the following:

1. Name of original manufacturer*

2. Lot or serial number(s) or date code

**Note: If the distributor of electronic components is not an authorized factory distributor for the component, the original OEM certification must accompany the shipment. Any deviations will require the submittal and PSEMC approval of a Vendor Information Request.*

SQC 28B – Certificate of Compliance (Non-AVL Distributors)

Distributors of material *not* used for deliverable product are *not* required to be on the PSEMC Approved Vendors List, but shall comply with the requirements set forth in clause SQC 28 above, plus the following:

1. Name of original manufacturer (if applicable)
2. Lot or serial number(s) or date code

SQC 30 – Customer Approved Sources

PSEMC Customer-approved sources shall be as specified per PSEMC Procurement prior to supplying process services and/or materials. The supplier is responsible for compliance by the supplier's sub-contractors.

SQC 31 – Certificate of Material Conformance

Each shipment shall be accompanied by one legible copy of an approved Supplier Certificate of Conformance (PSEMC Form No. 836 or equivalent), which certifies that the purchase order items were produced from material for which the supplier has objective evidence (specific data or other objective evidence) to the effect that the material conforms to all drawings and/or specification requirements and certifies that all requirements of the Purchase Order have been complied with. ***The certificate shall list the following as a minimum:***

1. Supplier's name
2. PSEMC P.O. number
3. PSEMC Part number (if referenced on the PO) and Vendor #, including dash and revision letters
Quantity
4. Lot number and serial numbers, if applicable
5. Material Type
6. Material Specification Number or an actual material certification identified with the PSEMC part and P.O. number.

Objective evidence of material certifications shall be maintained and will be made available upon request.

SQC 31A – Certificate(s) of Material Conformance

Supplier must provide legible copies of specific certifications and test and/or acceptance data for all tests, inspections, analyses, or processes performed by the supplier or their sub-contractors who perform any processes listed on the purchase order, referenced drawing, or specifications in compliance with this order.

SQC 32 - Certificate of Material Conformance (PSEMC furnished material traceability)

Each shipment shall be accompanied by one legible approved Supplier Certificate of Conformance (PSEMC Form 836 or supplier's equivalent), or a copy* of the PSEMC provided traceability (as applicable) that certifies that the purchase order items were produced from materials furnished by PSEMC. ***The certificate (or copy*) shall list the following as a minimum:***

1. Supplier's name
2. PSEMC P.O. number
3. PSEMC Part number (if referenced on the PO) and Vendor #, including dash and revision letter
Quantity
4. Lot number and serial number if applicable
5. Material traceability, as furnished by PSEMC
 - a. PSEMC material P.O./W.O. number
 - b. PSEMC I.R./D.R. number, when listed

SQC 33 - Certificate of Material Conformance, Preference for Domestic Specialty Metals

Suppliers are to use specialty metals melted in United States or its outlying areas. **Specialty metals produced outside of the United States or its outlying areas will not be used or provided unless the country of origin for melting is listed in DFARS 225.872.** This requirement shall be flowed down to any sub tier suppliers. The DFARS list is maintained by the US Department of Defense and is accessible on the web site http://www.acq.osd.mil/dpap/dars/dfars/html/current/225_8.htm#225.872-1.

Specialty Metals is defined by DFARS 252.225-7014, current revision.

Steel 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 containing more than 0.25 percent of any of the following elements: Aluminum, Chromium, Cobalt, Columbium, Molybdenum, Nickel, Titanium, Tungsten, or Vanadium; Stainless Steel falls into this category.

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; **Titanium and titanium alloys; or Zirconium and zirconium base alloys.**

Suppliers needing to use specialty metals melted outside of the United States or its outlying areas must:

1. Access the DFARS web site to determine if the country of origin of melting is allowed.
2. Provide, with the shipment, material certifications and chemical and physical reports from the producing mill. Each report must provide traceability by heat number.

Each shipment shall be accompanied by one legible copy of an approved Supplier Certificate of Conformance that certifies the origin of material melt of specialty metals by a qualifying country. This requirement must also be flowed down to all sub-tier suppliers. Each certification shall contain as a minimum:

1. Suppliers name
2. PSEMC PO Number
3. Part Number including dash number and revision number if applicable
4. Quantity
5. Country of material melt
6. Melt number, Lot number or serial numbers, if applicable
7. Material Type
8. Material specification number or an actual material identified with the PSEMC part number and PO number
9. Copy of Mill Certification

SQC 38 – Calibration Services

Supplier test equipment calibration services must have a calibration system conforming to MIL-STD-45662A, ANSI/NCSS Z540-1 or ISO 10012. Calibration procedures must be maintained which provide sufficient information for periodic calibration of measuring and test equipment (M&TE). The report, as a minimum, shall include the following information:

1. Date of Calibration
2. Specification(s) to which calibrated
3. Identification or serial number of the item to which the report pertains

4. Evidence of traceability for all calibrations performed to the National Institute of Standards and Technology (NIST).
5. Name and certification of the agency performing the calibration(s) if other than the supplier.
6. Results of calibration(s) performed including the initial (as received) and (as returned) measurements. The data shall include a statement of uncertainties (tolerances) or accuracy of standards used, including data for any out-of-tolerance conditions found.
7. Relevant environmental or other conditions under which the calibration was obtained and for which the stated tolerances are valid, as applicable.
8. Corrections which must be applied if standard conditions of temperature, gravity, air buoyancy, etc. are not met or differ from those at time and place of calibration, when applicable,
9. Each shipment shall be accompanied by one legible copy of an approved Supplier Certificate of Conformance.

SQC 41 - Manufacturer's Data Sheet

The Supplier shall furnish a standard "catalog" product specification or data sheet.

SQC 42 – Test Data

One copy of the Supplier's test data, identifiable to the material or items supplied, must accompany shipment. The test report shall reference the PSEMC Purchase Order number, the tests performed, the lot number and serial numbers (as applicable), and the applicable specification.

In the event that tests were conducted at an independent lab or sub-tier, the reports will note supplier name, address, purchase order, part number date of tests, serial numbers and lot numbers (as applicable). All test data, qualifications and acceptance test reports, as applicable are to be kept on file at the seller's facility.

SQC 43 – Printed Wiring Board (PWB) Requirements

SQC 43A – PWB Coupons and Test Data-

Each shipment shall be accompanied by one representative test coupon for each lot or batch along with a legible copy of all applicable test data from the tests conducted on printed wiring boards **or subassemblies** submitted to PSEMC.

SQC 43B – PWB DPA Requirements

The supplier shall provide one representative printed wiring board destructive physical analysis (DPA) cross-section sample and DPA report for each panel unless otherwise specified. Along with a legible copy of the report, the supplier is to provide a certification with a signature of the agency representative that performed the DPA attesting to conformance to specification requirements. (Electronic signature or signed validation is acceptable unless otherwise specified by contract)

SQC 43C – PWB Design Services

Artwork shall be supplied to Buyer for approval in electronic format that is readable with free viewers. Fabrication of the PWB shall not proceed prior to artwork approval by the Buyer. If no changes are made to the design, the final artwork shall be supplied to Buyer for documentation purposes.

SQC 43D – PWA Sub-Tier Flowdown Requirements.

Printed Wiring Assembly (PWA) suppliers shall assure complete flow down of applicable PSEMC requirements to all sub-tier suppliers. Supplier shall be provided the applicable drawing, applicable Quality Assurance Provisions and any other requirements stated in the Purchase Order applicable to the PWA or sub-tier supplier.

SQC 43E- PWB Testing

PWB's on this order shall be tested to the requirements of IPC-6012, IPC-6013, or MIL-P-50884, Group A and B prior to delivery. Copies of Group A test data shall accompany each shipment of PWB's. Group B test data shall be retained on file.

Coupons and Micro-sections The PWB supplier shall incorporate coupons on the fabrication panel that are representative of all the technology in the PWB including the worst-case condition of such features (e.g. annular rings, etc.).

Micro-sections shall be performed on a read and record basis with data included in the PWB certification. One additional set of coupons shall be provided to Buyer with each lot of PWB's.

SQC 43F - PWA Assembly Special Processes and Certifications

The PWA supplier shall provide separate certifications from each supplier of a special process. Special processes include wire bonding, soldering, plating, PWB manufacture, adhesive bonding, etc. Certifications shall include lot date codes or lot numbers for all components used in the assembly, including those supplied by all suppliers of special

processes shall be a PSEMC approved or directed supplier (PWA supplier may add the applicable PSEMC PO# reference on the sub-tier certs). Each certification shall contain as a minimum:

1. Supplier name
2. Supplier Address
3. PSEMC PO Number
4. Part number, dash number and revision
5. Quantity processed
6. Lot date code or batch number
7. Process name, specification (with revision), along with type and class.

SQC 45 – Chemical Test Reports

Each shipment shall be accompanied by one legible copy of the actual test data from the chemical tests conducted on materials submitted to PSEMC. The reports must contain the material lot number, specification, material type, and signature of the responsible representative or subtier supplier (Electronic signature or signed validation is acceptable unless otherwise specified by contract) attesting to conformance to specification requirements.

SQC 46 – Physical Test Reports

Each shipment shall be accompanied by one legible copy of the actual test data from the physical tests conducted on materials submitted to PSEMC. The reports must contain the material lot number, specification, material type, and signature of the responsible representative or subtier supplier attesting to conformance to specification requirements. (Electronic signature or signed validation is acceptable unless otherwise specified by contract)

SQC 47 – Inspection Plan and Report

The Supplier shall complete, sign and date the supplied Inspection Plan & Report (IP&R) or Receiving Inspection Operation Sheet (RIOS) to the specified AQL, or submit documentation that includes all the requirements of the supplied IP&R or RIOS. *NOTE: Fill in "Actual/Span" blanks only when a characteristic is found to be out of tolerance.*

SQC 54 – Special Process Procedure

PSEMC approval of a special process procedure shall be required prior to the performance of work on this Purchase Order. Processes shall address the process, equipment, personnel, and any other considerations pertinent to the applicable specification.

Special processes will include, but not limited to, welding, heat-treating, cleaning, electroplating, anodizing, chemical film, or non-destructive testing. One legible and reproducible copy of the procedure shall be submitted to PSEMC for review and approval a minimum of two weeks prior to production.

The approved special process procedure number, revision and the specification(s) pertaining to the process and revision, shall be on the Certificate of Conformance (C of C), and any applicable sub-tier C of C. For traceability, the Material Lot Number and Serial Numbers (if individually serialized) are to be listed on each certificate.

SQC 56 – Process Changes

Supplier shall notify PSEMC of any proposed changes to the established baseline of materials, processes, sub-tier suppliers or inspection testing methods, techniques or facility changes. Request is to be submitted on PSEMC form# 2030, Vendor Information Request (VIR), available at psemc.com. PSEMC approval is required prior to implementation of any proposed changes.

SQC 58 – Packaging of Springs

Packaging shall ensure that the items do not become inter-twined, tangled or damaged. The use of tubes or rods for packing springs shall be employed.

SQC 60 – Serialization

The supplier shall identify each component, subassembly, or assembly by serial number in accordance with the Purchase Order, drawing, and/or specification requirements. The supplier's serialization system shall preclude the possibility of duplication of serial numbers. Unless otherwise specified, it is the supplier's responsibility to assign serial numbers and where applicable, flowing down this requirement to sub-tier suppliers. The supplier's Quality Control System shall provide for traceability of all serialized supplies to the source.

SQC 62 – Homogeneous Requirements

All material and/or parts supplied under this Purchase Order shall be from one homogeneous and identical lot; that is, there was no change in the material constituents, manufacturing location, process, or design during manufacture of the lot by the supplier.

SQC 63 – Manufacturing Lot or Batch Number

All parts, materials, and/or applicable documents shall be identified by the supplier with a lot number, date lot code, batch number, heat number, heat code, heat lot number or melt number. Where it is not practical to mark the part, the smallest container

package shall be marked or tagged with the above data. All applicable documents (chemical and physical reports, certifications) shall include the above- required identification, as well as a reference to the PSEMC Purchase Order Number.

SQC 70 – First Article Inspection (FAI)

Unless otherwise specified on the Purchase Order, compliance with the requirements shall be determined by inspection of one (1) representative part to applicable drawings and specifications. The first article item, when submitted to PSEMC, shall be accompanied by the supplier's first article inspection report. Unless otherwise specified, the format utilized shall be AS9102. First article items shall be tagged, bagged or otherwise identified as first articles and show the tool number, tool serial number and cavity or batch number as applicable. (When more than one cavity is used, first articles from each cavity must be submitted). Upon receipt of the first article part and report from the supplier, PSEMC Quality Assurance shall approve the first article by verifying all applicable requirements.

SQC 72 – Tool Proofing

Tool proofing shall be accomplished on all PSEMC authorized, vendor-furnished tools manufactured or acquired for use on this order by the Supplier's Quality Control. The Supplier shall not manufacture or modify any such tooling unless authorized by a tool order. Objective evidence of proper control and maintenance shall be maintained by the Supplier and subject to audit by PSEMC.

SQC 80 – Certificate of Qualified Products

Each shipment shall be accompanied by one legible copy of a Supplier Certificate of Conformance (or the supplier's equivalent form with the same information) that identifies the materials as qualified to the required specification and listed on an official Qualified Products List (QPL). Where material is qualified but not included in the QPL, the certification shall reflect the qualifying test report number. Approved vendor listings issued by prime contractors will be utilized when required by contract.

SQC 81 – Special Requirements

Refer to the Purchase Order notes or attachments for description of requirements.

SQC 84– Electrostatic Discharge (ESD) Protection

ESD sensitive items shall be identified, handled, processed, and packaged to provide proper electrostatic discharge protection within the guidelines

of JEDEC/EIA 625-(Requirements for Handling Electrostatic Discharge Sensitive Devices).

SQC 86 – Special Shipping Instructions

Material ordered on this Purchase Order is to be shipped to a designation other than PSEMC for further processing. All quality data and certifications required by the Purchase Order shall accompany the shipment and copies of such data shall be mailed to the PSEMC Receiving Inspection Department.

SQC 91 – Drawing Control (Supplier owned)

Supplier shall not implement any changes in design, materials, processes, or control without prior written approval (via the PSEMC buyer), from the cognizant Quality Assurance or Program Engineering representative prior to supplying services and/or material. The supplier is also responsible for compliance by sub-contractors.

SQC 92 – MRB Limited Authority

Supplier is delegated limited Material Review Board (MRB) authority for Class II defects (non-conformances that do not affect form, fit, or function), with review and concurrence from PSEMC Quality Assurance. Disposition of non-conformances to drawings or specifications shall not be considered as precedence for additional or future dispositions. Nonconforming material shall be identified either on the material or the shipping document(s) with reference to the nonconformance document, and must include evidence of PSEMC concurrence.

SQC 93 – Statistical Process Control (SPC)

The supplier shall provide variables data to support compliance to the required capability, as outlined in a supplier or PSEMC generated and/or PSEMC approved SPC Plan.

SQC 94 – Mission Assurance Requirements

SQC 94A - Configuration Control & Notification

The supplier shall be responsible for:

1. Controlling changes to parts or components manufactured to the established baseline of PSEMC drawings and specifications, PSEMC controlled supplier drawings, specifications and processes to ensure that the end product meets the specified configuration requirements. Only PSEMC is authorized to approve changes to these drawings, processes and specifications.

2. Maintaining a system to control processes that fulfill the requirements of the purchase order, at its facilities and that of its sub-tier suppliers is required.
3. The supplier shall notify PSEMC prior to any changes to their sub-tier's designs (including proprietary designs), parts/components, materials, fabrication methods, processes*, tooling, equipment or methods used in the testing and acceptance of products delivered to PSEMC. *NOTE: *If the process performed by the Supplier or its sub-tier suppliers is identified as a Critical and/or Special Process then it shall be controlled by the Supplier in accordance with Quality Clause SQC 25. The Supplier shall obtain PSEMC written approval prior to making any changes to such processes.*
4. The supplier shall notify PSEMC within one (1) working day of any recall notices for any product, raw material and/or components procured by the Supplier. The Supplier is also responsible to notify PSEMC of all such recall notices or GIDEPS from wholesalers, manufacturers, and sub-vendors and agencies.
5. Supplier shall inform PSEMC within ten (10) working days as to whether a GIDEP ALERT is applicable. PSEMC shall notify the Supplier of GIDEP ALERTS or other potential recall notices.

SQC 94B- Approval of Acceptance Procedures

The supplier shall provide assembly and acceptance procedures to PSEMC for approval and is required to obtain written approval prior to any changes.

SQC 94C - Facility Changes

The Supplier shall notify PSEMC prior to any changes to the Suppliers facility, point of manufacture, labor disputes, impending shutdown (defined as ninety (90) calendar days or more) of normal manufacturing operations or changes in name or ownership. Such changes or events may negate all previous PSEMC qualifications, certification, approval status, and may require re-submittal of a First Article.

SQC 94D - Written Authorization to Subcontract Work

The Supplier shall notify PSEMC and receive PSEMC written approval prior to subcontracting work in excess of 40%, excluding cost of material, of the cost to produce any line item of the purchase order or RFQ.

SQC 94E- Quality Program Plan (QPP)

The Supplier shall prepare and submit a Quality Program Plan (QPP) to PSEMC. Contents of the plan

used to implement requirements of the Purchase Order are subject to disapproval by PSEMC. The QPP shall include, as a minimum, the following:

1. A description or organization chart showing the Quality Control Organizational relationship to other functional organizations (i.e. Engineering, Purchasing, Manufacturing, etc.).
2. A detailed definition of the Supplier's method for assuring product quality at all phases of inspection and test from procurement through receiving, fabrication, testing, acceptance, preservation, packaging and shipping.
3. Flow charts indicating the inspection and test verification points through the receiving, fabrication, assembly and shipping sequence.

SQC 94F - Foreign Object Elimination (FOE) Program

The supplier shall establish and maintain an FOE program acceptable to PSEMC. The FOE program will be subject to review and approval by PSEMC. The material supplied on this purchase order shall be manufactured in an environment that is free of foreign object contamination. Any instances where foreign object contamination has occurred or is suspected will be reported to PSEMC prior to material acceptance and delivery. The intent of this quality requirement is to maintain continual awareness of the need to eliminate sources of foreign object contamination for all supplied material.

SQC 94G - Test Failure and Anomaly Notification

In the event of any Lot Acceptance Test (LAT) failure or anomaly, the test setup will be frozen and PSEMC will be immediately notified. Unless a safety issue is involved, there will be no activity performed until a formal failure review board (FRB) is conducted with PSEMC.

SQC 94H - Training and Certification Program

The Supplier shall implement and maintain an employee training program subject to review and approval by PSEMC. The plan used will be sufficient to maintain and assure product and process quality and consistency.

SQC 94J - As-Built & Traceability Data Requirement

With each delivery, the supplier will provide an As-Designed vs. As-Built drawing record along with specific traceability information for each and every component and/or material provided in the finished assembly.

SQC 95 Boeing Approved Processors

The Supplier and any sub-tier contractor shall be or utilize Boeing approved process sources in accordance with DI-4426, which, along with information on Boeing approved processors and the User Instructions for the document, can be obtained from the Boeing web site.

NOTE: at time of publication of PSEMC Supplier Quality Requirements the Boeing approved processors could be found at URL:

http://www.boeing.com/companyoffices/doingbiz/index_quality.html

The supplier shall supply copies of the approved processor certification to Buyer with each shipment. If a specific Boeing inspection or processing criteria or requirement is referenced in the PO, the supplier shall include a specific reference of compliance to this on the supplier certification(s) with each shipment.

SQC 96 Lockheed Approved Processors

The Supplier and any sub-tier contractor engaged in special processes (i.e. soldering, cleaning, X-Ray, welding, magnetic particle and penetrant inspection, heat treating, plating, etc.) shall have special process approval by Lockheed-Martin or his system to control his sub-tier's special processes shall have been approved by Lockheed-Martin. Approval of special process sub-tier contractors does not relieve the Supplier of the responsibility for exercising those control measures necessary to ensure that work performed by sub-tier contractors is in accordance with specification requirements. The Supplier shall have records of his approval on file available for review by the Buyer and/or Lockheed-Martin QA representative. The Supplier shall identify any sub-tier contractor(s) that performed special processes, by process specification, and shall supply copies of the approved processor certification to Buyer with each shipment.

NOTE: at time of publication of PSEMC Supplier Quality Requirements a list of Lockheed-Martin approved special processors can be found on the CPS Supplier Gateway via the internet at URL:
<http://Supplier.External.LMCO.com>.

SQC 97 Single Heat Lot Control (USA/NASA)

The Supplier shall furnish the entire lot on this order from the same heat lot. The Supplier shall indicate the heat lot number on the Certificate of Conformance and flow down the heat lot requirement to all sub-tier processors. Sub-tier processors shall record the heat lot number on all certifications submitted to the Supplier.