

## **QUALITY ASSURANCE PROVISIONS**

### **GENERAL REQUIREMENTS**

The General Requirements apply to all Purchase Orders invoking Attachment 24.

1. Full compliance to the following clauses specified by the purchase order is required. Failure to comply or partial compliance with any clause specified by the purchase order shall be cause for rejection and return of the item(s) in question.
2. Aerojet reserves the right to return, at the Supplier's expense, any or all of a lot in which defective parts have been found by the supplier's inspection sampling plan or test sampling plan. Final acceptance is performed at Aerojet's facility.
3. When a Quality, Inspection, Material Control or Calibration System is imposed, the Supplier's corresponding system shall be subject to initial and periodic review/audit/approval by an Aerojet Quality Representative (s) and/or Aerojet's customers/Government/Regulatory Authorities (when accompanied by Aerojet) as required.
4. Requests for information from any source, for any departures from drawings, specifications, special processes, or other Purchase Order requirements, must be reported on Aerojet's Vendor Information Request (VIR), form QA-102. All VIR's must be submitted to your Procurement Representative. Formal disposition of departures listed on the VIR will be coordinated by your Procurement Representative and must be obtained prior to shipment. A copy of the dispositioned VIR must be included with the shipment as part of the Quality documentation. Any exception to this paragraph requires Aerojet's written approval prior to shipment.
5. All items rejected by Aerojet and subsequently resubmitted to Aerojet by the Supplier, shall bear an adequate indication of such resubmission on those items or on the shipping documents. Reference shall be made to the Aerojet and Supplier's rejection documents and evidence given that the causes for rejection have been corrected.
6. Aerojet reserves the right to approve subtier supplier selection and to verify compliance by suppliers and subtier suppliers to Aerojet technical and contractual requirements by on-site review.
7. Aerojet reserves the right of access for Aerojet, Aerojet's customer/Government/Regulatory Authorities (when accompanied by Aerojet) to all facilities involved in the Purchase order.
8. The supplier agrees to maintain strict controls to assure that, after the item(s) successfully pass the qualification/acceptance, neither the design, material, part, process, procedure, tooling or test equipment shall be altered, redesigned or replaced by any other design, material, part, process, procedure, tooling or test equipment, nor shall the item(s) be produced at other than the suppliers original facility which produced the acceptable item(s), without written approval of Aerojet via the VIR or SOW.

9. The supplier shall flow down all specifically identified Quality clause requirements to their subtiers as specified in the Aerojet Purchase order.
10. Unless otherwise specified, documentation supporting requirements of this Purchase Order shall be maintained on file for a minimum of five (5) years after completion of this Purchase Order. This documentation shall include, but is not limited to: material certifications, test coupons, manufacturing and inspection records, radiographs, and test reports. Aerojet shall be notified thirty days prior to disposal of documentation. Aerojet reserves the right of access for Aerojet, Aerojet's customer/Government/Regulatory Authorities (when accompanied by Aerojet) to all applicable records.
11. Materials shall be packaged in a manner that will prevent damage and preclude moisture, foreign matter or contamination damage and be properly maintained, (e.g., temperature/ humidity controlled) prior to receipt by Aerojet. Exceptions must be approved by Aerojet prior to shipment.

## **SYSTEM REQUIREMENTS**

The supplier's Quality system is subject to review and approval by Aerojet and/or Aerojet's customer/Government/Regulatory Authorities (when accompanied by Aerojet) at any time. Aerojet's approval of supplier's program does not constitute acceptance of product/services or relief of purchase order requirements.

- B1** QUALITY ASSURANCE SYSTEM - The supplier shall maintain a Quality Assurance Program in accordance with ISO 9001 (latest revision) or equivalent, e.g. AS 9100. Obsolete specifications such as MIL-Q-9858A will be considered acceptable.
- B2** INSPECTION SYSTEM - The supplier shall maintain an Inspection System in accordance with ISO 9001 denoting the applicable exceptions (latest revision). Obsolete specifications such as MIL-I-45208 and ISO 9003 will be considered acceptable.
- B3** CALIBRATION SYSTEM - The supplier shall maintain a calibration system in compliance with either ANSI/NCSS Z540, ISO 10012, ISO/IEC17025 or A2LA accredited (latest revisions). Obsolete specifications such as MIL-STD-45662 will be considered acceptable.
- B4** MATERIAL INTEGRITY SYSTEM - The Supplier furnishing materials to Aerojet shall maintain an inspection system adequate to assure conformance to Purchase Order requirements. MIS certifications required by this Purchase Order shall be signed by a company Quality Assurance Representative or Responsible Company Official. At the discretion of Quality Engineering, B1 or B2 Suppliers may be substituted for a B4 Supplier.
- B5** DISTRIBUTORS - The Supplier furnishing materials to Aerojet shall maintain an inspection system adequate to assure conformance to Purchase Order requirements. MIS certifications required by this Purchase Order shall be signed by a company Quality Assurance Representative or Responsible Company Official. Distributors must be OEM authorized. Materials supplied by Distributors must retain the OEM's material traceability and comply with

all OEM environmental/shelf-life requirements.

## **SPECIAL PROCESS AND CHANGE CONTROLS**

- C1** SUPPLIER SPECIAL PROCESS CONTROL - Prior to performing any special processing such as heat treat, welding, solder, surface treatment/plating, NDT etc., the Supplier shall furnish detailed process procedures to Aerojet for approval on a VIR. The supplier's/subtier's procedures shall include sufficient detail to fully define and control the process. The procedure shall include the name and address of the supplier's facility. After Aerojet approval, no changes in the procedure, including supplier location, are allowed without prior Aerojet approval. An on-site survey may be conducted by Aerojet and/or Aerojet's customers/Government/Regulatory Authorities (when accompanied by Aerojet) for approval of special processes. The supplier is responsible for all special processes conducted by the supplier's subtier. Aerojet approval of the supplier's procedures does not relieve the supplier/subtier of any responsibility for compliance to the Purchase Order. The Supplier shall notify Aerojet 30 days prior to a change in the supplier or subtier's facility location.
- C2** SUBTIER SPECIAL PROCESS CONTROL - Prior to the supplier's subtier performing any special processing such as heat treat, welding, solder, surface treatment/plating, NDT etc., the Supplier shall furnish detailed subtier process procedures to Aerojet for approval on a VIR. The supplier's subtier's procedures shall include sufficient detail to fully define and control the process. The procedure shall include the name and address of the supplier's subtier facility. After Aerojet approval, no changes in the procedure, including supplier's subtier location, are allowed without prior Aerojet approval. An on-site survey may be conducted by Aerojet and/or Aerojet's customers/Government/Regulatory Authorities (when accompanied by Aerojet) for approval of special processes. Aerojet approval of the supplier's subtier procedures does not relieve the supplier/subtier of any responsibility for compliance to the Purchase Order. The Supplier shall notify Aerojet 30 days prior to a change in the supplier or subtier's facility location.
- C3** FOREIGN OBJECT ELIMINATION (FOE) - The supplier shall establish and maintain an effective Foreign Object Elimination (FOE)/Foreign Object Damage (FOD) Program to reduce FOD using NAS-412 as a guideline. The program shall be proportional to the sensitivity of the design of the product(s) to FOD, as well as, to the FOD generating potential of the manufacturing methods. The supplier will document and investigate, determine root cause and eliminate repetitive nonconformances related to FOD incidences. The written procedures developed by the supplier shall be subject to review and auditing by Aerojet and disapproval when the supplier's procedures or policies do not accomplish their objectives.
- C4** GOVERNMENT-INDUSTRY DATA EXCHANGE PROGRAM (GIDEP) – The supplier shall participate in the appropriate interchange of the Government-Industry Data Exchange Program (GIDEP) in accordance with the GIDEP Requirements Guide S0300-BU-GYD-010 latest revision. Data entered is retained by the program and provided to qualified participants. Compliance with this requirement shall not relieve the supplier from complying with any other requirement of the contract. The supplier agrees to insert this paragraph in any subcontract exceeding \$500,000.

- C5** APPROVED SUPPLIER LIST SUBTIER USE REQUIRED - Use of Aerojet Approved Supplier Listing (ASL) is mandatory. Any and all supplies and services, requiring manufacturing or special process, must be procured from subtier suppliers approved and listed on the ASL. Deviations from the ASL must be approved by Aerojet and documented on an Aerojet VIR. The Supplier's use of Aerojet's ASL does not relieve the Supplier of any responsibility for compliance to the Purchase Order.
- C6** X-RAY - A Radiographic Inspection Plan must be submitted to Aerojet for approval. The Plan shall, as a minimum, describe the technique to be utilized, including: equipment, penetrameters, screen (if any), film, voltage, current, exposure time, focal distance, number of views, method of indexing, typical set-up sketch, etc. The supplier's Radiographic Inspection Plan shall meet the requirements of ASTM-1742, and the revision applicable at the Purchase Order award, as a minimum. Radiographs shall be available for review by Aerojet at any time. When shipment of radiographs is specified, radiographs shall be properly packaged to preclude damage in shipment. The Supplier shall furnish certification that materials, equipment and Inspection Plan used in the performance of radiographic inspection are in accordance with ASTM-1742 & NAS-410. Unless otherwise noted by Purchase Order, radiographs are to be retained for five years after completion of the Purchase Order. Radiographs are not to be discarded without thirty days prior written notification to Aerojet.
- C7** PRODUCT AND PROCESS CONTROL PLAN (PPCP) – The supplier shall have a PPCP in supplier format, for all significant process parameters and significant product and inspection characteristics. A single PPCP may apply to a family of products produced by the same process provided that all unique areas are delineated. The supplier's PPCP shall include the applications of related commercial or military specifications/standards used as guidance. The PPCP shall be submitted on VIR for Aerojet review/approval.
- C8** PROCESS MAPPING – The Supplier agrees to fully document the process and procedure by which the product is manufactured. This documentation will be submitted to Aerojet via the Vendor Information Request (VIR) - Form QA 102 for approval. Acceptable forms of documentation are shop travelers and procedures, supplier specifications and operating procedures. Upon submittal and approval by Aerojet this process documentation will be the basis for documenting and controlling change in the suppliers manufacturing process. Changes to the process shall be documented and submitted for approval via VIR. If the supplier deems the information transmitted to be proprietary a Bilateral Non-Disclosure Agreement will be initiated prior to transfer of information.
- C9** OBSOLESCENCE MANAGEMENT – The Supplier shall monitor parts and/or materials life-cycle status and availability throughout the duration of the contract. Parts/materials that are determined to be unavailable or have been identified as "unavailable for new designs" shall be reported to the Buyer within 7 working days of obtaining this designation.
- C10** SPECIAL PROCESS APPROVAL – The Supplier/subtier supplier performing special

processes shall be approved by Lockheed Martin. Suppliers already approved (by process) can be viewed at <http://supplier.external.lmco.com/> then select approved special process suppliers. Aerojet must be notified immediately if any special process supplier or subtier supplier has not been approved in order to submit the supplier process to be approved.

- C11** SOLDERING TIN CONTENT – The Supplier must certify that all electronic, electrical, electromechanical, and mechanical pieces parts and assemblies shall not have pure tin finishes. All tin-lead plating or solder process shall result in a finish of not less than 3% lead composition. This does not apply to: gold, nickel-palladium, nickel-palladium-flash-gold, tin-silver and tin-silver-copper. This applies to component leads and terminations, carriers, bodies, cages, brackets, housings, mechanical items, and hardware (nuts, bolts, screws).
- C12** SPECIFICATIONS/STANDARDS – All Military specifications and standards referenced in the PO shall be to the latest revision level in effect on the date of the PO, unless specified otherwise.

## **TRACEABILITY**

- D1** SERIALIZATION - Nonrecurring serialization of specified components is required. Method of application, location, sequence, and clarity requirements are as identified elsewhere in this purchase order or on an applicable drawing/specification.
- D2** MATERIAL/COMPONENT TRACEABILITY - Materials, components, and subassemblies forming the item(s) prescribed in this Purchase Order shall be traceable from the supplier's shipper back to the Supplier's Purchase Orders. This requirement applies to serialized and nonserialized items. All traceability documentation shall remain on file at the supplier's facility and must be made available to Aerojet upon request.
- D3** MATERIAL/COMPONENT TRACEABILITY – The supplier shall maintain a material/product traceability system that assures full traceability to the material lot/heat lot and any applicable requirements imposed by listed drawing or specification standards. The supplier shall maintain records that provide manufacturing production lot/batch/heat lot traceability for each:
- Serialized subassembly
  - Unserialized subassembly
  - Individual part (details)
  - Consumed materials (solder, adhesive, lubricant, etc.)

The supplier shall assure that the certifications provided include the actual material, special process or testing standards noted on the applicable drawings along with the applicable revision letter or identifier. Any exceptions to standards or specifications must be noted. Unless otherwise specified, the latest revisions of standards or specifications apply.

## **CERTIFICATION REQUIREMENTS**

Electronic generated certifications identifying responsible Quality Assurance Representatives or Company Officials are acceptable for authentication provided all information requested is contained therein. In the event of multiple certifications, a link must be provided to allow traceability to each certification. Failure to submit certifications can result in rejection of materials, or delayed payment of invoices.

**E1** CERTIFICATE OF COMPLIANCE (C of C) - The Supplier shall furnish, with each shipment, a legible and reproducible certificate stating compliance to Purchase Order requirements. This certificate shall include the Supplier's name, Purchase Order Number, item name, and the specification number (including revisions and amendments) or drawing number (including revision), Lot/Serial number, as applicable. This certificate shall be authenticated by a responsible Quality Assurance Representative or Company Official attesting compliance to all applicable Purchase Order requirements.

In lieu of a C of C, a legible Original Equipment Manufacturer's (OEM) label on each container or package, providing the manufacturer's name, item name, drawing or specification number (with revisions), may be acceptable. An OEM C of C does not relieve the supplier of any Purchase Order responsibilities.

**E2** CERTIFICATE OF COMPLIANCE - MATERIAL SUPPLIED BY Aerojet - The Supplier shall furnish with each shipment a legible and reproducible copy of a certificate attesting to the utilization of material supplied by Aerojet. The certification must include the Aerojet Inspection Report Number(s) that accompanied said material to the Supplier, the purchase order number, item name, drawing number (including revision), and Lot/Serial numbers, when applicable, and this certificate shall be authenticated by a responsible Company Official. If more than one Aerojet Inspection Report Number is provided, the Supplier must maintain segregation and traceability of each serialized part or lot of parts to each material lot Inspection Report Number.

**E3** STOCK ITEM CERTIFICATION SHEET - Item(s) identified by this Purchase Order are covered by Aerojet Stock Item Certification requirements. Stock Item Certification Sheets are attached. The completed certification must be authenticated by a responsible company official attesting compliance to all applicable requirements. The Supplier may opt to utilize their own certificate in lieu of the Stock Item Certification sheet, provided it satisfies the Stock Item Certification Sheet criteria.

**E4** CHEMICAL/PHYSICAL TEST - The Supplier shall furnish with each shipment a legible and reproducible copy of chemical/physical test data required by the applicable specifications for materials supplied, materials in parts or assemblies, or testing performed. Each report shall include positive identification to the specification required (including revision and amendments) the requirements and results obtained, traceability to the Aerojet Purchase Order Number, and if applicable, the drawing number and revision. The report shall be properly authenticated by a responsible Supplier Official attesting compliance to all applicable requirements.

**E5** AUTHORIZATION TO "DROP SHIP" MATERIAL – Material to be shipped to another supplier

(other than Aerojet) will require the supplier to furnish with each shipment an Aerojet Inspection Report (IR) Card. The supplier shall transmit the required acceptance documentation/certification to Aerojet for review and acceptance prior to shipment. Aerojet will then provide the supplier with the appropriate IR Card(s) which will accompany the shipment. If more than one Aerojet IR Card is provided, the Supplier must maintain segregation and traceability of each serialized part or lot of parts to each material lot Inspection Report Number. Supplier cannot ship without the required IR Card unless approved via the VIR.

- E6** SHELF-LIFE CERTIFICATION - For each shipment a legible and reproducible copy of a certificate referencing the item name, batch number, cure date, or limited life date, the material specification or drawing number (including revision and amendments) and storage requirements stating conformance to the requirement of the Purchase Order and authenticated by a responsible Supplier Official attesting compliance to all applicable requirements. Each container shall be labeled with information that will enable full identification to the above, with the exception of statement of conformance to the purchase order requirements. The supplier material must have at least 70% of its usable shelf-life available when received at Aerojet.
- E7** SPECIAL PROCESS CERTIFICATION - Each shipment must be accompanied by a legible and reproducible copy of a certificate for special processes used to manufacture/inspect the part. When parts are serialized, serial numbers must appear on the certification. The certificate shall list the Purchase Order Number, item name, drawing or process specification number (including revision and amendments, if applicable), supplier or subtler name. Examples are: attesting that all welding operators used in the performance of this contract have been certified in accordance with the weld specification, and revision applicable to the Purchase Order or an authenticated certificate for each shipment attesting that all NDT personnel used in the performance of this specified method of nondestructive testing have been certified in accordance with NAS-410 and the revision applicable to the Purchase Order award. The certificate must be authenticated by a responsible Supplier Official attesting compliance to all applicable requirements.
- E8** BLANK
- E9** BLANK
- E10** SUPPLIER INSPECTION/TEST DATA REPORT – The supplier shall furnish, with each shipment, a completed, legible, reproducible copy of the Supplier Inspection/Test Data Report (SITDR). Upon approval by Aerojet, the supplier may opt to utilize their own inspection/test data report, provided it satisfies all the criteria. The report shall include actual data for all dimensions as identified and an indication of acceptance for the other dimensions. Part number (with revision), part name, quantity inspected and sample inspection level shall be included. The sampling plan shall not allow for the acceptance of known defectives in the lot, i.e. the plan shall always reject the lot if one defective is found. Test data shall include actual data and indication of acceptance for all test parameters. The report shall list the purchase order number, item name, drawing, or specification number (including revision and amendments, if applicable,) and authenticated by a responsible Supplier Official attesting

compliance to all applicable requirements.

- E11** ENVIRONMENTAL, PRESSURE OR LEAK TESTS REPORT - The Supplier shall provide a copy of the test report containing test parameters and actual results. The report shall include copies of all supporting documentation such as strip charts and time/temperature readings. The report shall reference serial or lot numbers and shall be signed by the test operator and responsible company official.
- E12** CALIBRATION CERTIFICATION - The calibration supplier listed on the purchase order shall perform all calibrations and is not authorized to subcontract any calibration unless approved by Aerojet. A calibration report shall be furnished to Aerojet for each calibration performed and at a minimum include the following information:
- Identification of the unit being calibrated
  - Identification of the calibration source traceable to NIST
  - Date of calibration
  - Conditions "As Found" and "As Left"
  - Notification of out-of-tolerance conditions
  - Certification that calibrations were performed in accordance with either ANSI/NCSC Z540 or ISO 10012/Guide 25 (latest revisions)
  - Identification of measurement uncertainties
- E13** SUBTIER PO QUALITY CLAUSE FLOWDOWN- The Supplier shall flow down applicable Aerojet PO requirements to supplier subtiers including identified key characteristics as specified in Aerojet Purchase Order.

## **INSPECTION**

Product acceptance through surveillance, inspection or test made by Aerojet representatives at Aerojet facilities or at the sellers and/or their subtier suppliers facilities shall not relieve the seller of the responsibility to furnish an end item that conforms to the requirements of the procurement document.

- F1** FIRST ARTICLE INSPECTION (FAI) – A FAI is required, on new product representative of the first production, when process has changed, production facilities have moved, or the product has not been manufactured in a 12 month period. If any of these conditions apply, a FAI is required. A FAI plan must be submitted to Aerojet for approval prior to production manufacturing. Upon plan approval, the supplier will be authorized to proceed. Unless otherwise specified, the FAI Report shall include all specified part characteristics and tests, including those specified by drawing, specification or purchase order notes. Actual variables data shall be listed for each characteristic. Tolerances shall be specified for each item listed. A proposed FAI Report format shall be included with the plan submittal. After completion of the FAI, the FAI Report must be signed by the supplier's authorized Quality Assurance Representative and submitted to Aerojet via VIR for approval. This report shall be approved by Aerojet prior to shipment. In the event the supplier commences production manufacturing prior to FAI approval, the activity, including associated costs, will be at the supplier's risk

unless written authorization is provided by Aerojet. Aerojet and its customer/Government/Regulatory Authorities (when accompanied by Aerojet) may elect to witness the FAI.

- F1-A** FIRST ARTICLE INSPECTION (FAI) – A FAI is required, on new product representative of the first production, IAW AS 9102 when process has changed, production facilities have moved, or the product has not been manufactured in a 12 month period. If any of these conditions apply, a FAI is required. A FAI plan must be submitted to Aerojet for approval prior to production manufacturing. Upon plan approval, the supplier will be authorized to proceed. Unless otherwise specified, the FAI Report shall include all specified part characteristics and tests, including those specified by drawing, specification or purchase order notes. Actual variables data shall be listed for each characteristic. Tolerances shall be specified for each item listed. A proposed FAI Report format shall be included with the plan submittal. After completion of the FAI, the FAI Report must be signed by the supplier's authorized Quality Assurance Representative and submitted to Aerojet via VIR for approval. This report shall be approved by Aerojet prior to shipment. In the event the supplier commences production manufacturing prior to FAI approval, the activity, including associated costs, will be at the supplier's risk unless written authorization is provided by Aerojet. Aerojet and its customer/Government/Regulatory Authorities (when accompanied by Aerojet) may elect to witness the FAI.
- F2** SOURCE INSPECTION - All items of this Purchase Order are subject to in process quality surveillance by Aerojet and/or Aerojet's customer/Government/Regulatory Authorities (when accompanied by Aerojet). Shipments shall not be made without Aerojet's Quality Representative's authorization. Source release does not constitute final acceptance, which is performed at the Aerojet facility designated on this Purchase Order. A copy of the Purchase Order, related correspondence, manufacturing and inspection documentation shall be made available to the Aerojet Quality Representative. The Supplier shall provide no less than three working days advance notification to the Aerojet buyer before items are ready for Aerojet source surveillance. Aerojet may designate discreet manufacturing operations as Aerojet Quality Surveillance Points. The supplier is required to notify Aerojet three working days prior to commencement of the identified operation. The supplier shall not proceed past an Aerojet surveillance point without written Aerojet approval.
- F3** GOVERNMENT SOURCE INSPECTION - Government inspection is required prior to shipment. Evidence of such inspection must be indicated on the packing sheet accompanying each shipment. On receipt of this Purchase Order/subcontract, promptly furnish a copy to the Government Representative who normally serves your plant, or if none, to the nearest Army, Navy Air Force or Defense Logistics Agency Inspection Office in your locality. In the event the representative or office cannot be located, contact Aerojet. The supplier shall give the government adequate notice of the items being ready. The supplier shall advise the Aerojet buyer if any issues concerning government source inspection are going to impact contractual delivery to Aerojet.
- F4** SAMPLING INSPECTION - A Sampling Inspection plan must be submitted to Aerojet for approval prior to final acceptance. Upon plan approval, the supplier will be authorized to proceed. Unless otherwise specified, the plan shall be statistically valid and appropriate for

it's use. The plan shall not allow for the acceptance of known defectives in the lot, i.e. the plan shall always reject the lot if one defective is found.

## **TESTING**

**G1** TEST COUPONS. SUPPLIER FURNISHED - The Supplier shall furnish and process test coupons of the material and quantity required by the applicable specifications representative of Special Process lot (e.g., Mill Heat, Plating, Testing, ...). Test coupons shall be permanently identified by the supplier and traceable to each process lot as follows:

1. Supplier's name or trademark.
2. Aerojet 's Purchase Order Number.
3. Lot Number/Serial Number.
4. Alloy identification.

**G2** TEST COUPONS - Aerojet - The Supplier shall process Aerojet provided test coupons with the applicable specifications representative of Special Process. These coupons shall be permanently identified by the Supplier traceable to each process lot as follows:

1. Supplier's name or trademark.
2. Aerojet 's Purchase Order Number.
3. Lot Number/Serial Number.

**G3** ENVIRONMENTAL TESTING - The Supplier shall submit an Environmental Test procedure to Aerojet, via VIR, for review and approval prior to testing. This procedure shall include detailed instructions, equipment type, specification limits and representative supplier verification logs or work travelers, with procedure revision level. Completed verification logs/work travelers shall be incorporated into the supplier's final Environmental Test Report. In the event the supplier performs the test prior to submittal approval, as identified in the Purchase Order, the supplier may be responsible for the cost to repeat the test and the replacement of necessary test hardware, as determined by Aerojet.

## **MISCELLANEOUS**

**H1** CONFIGURATION CONTROL - When parts are joined in an assembly process, the seller shall prepare an "Assembly Configuration & Serialization Log" identifying each part in the assembly by specification/drawing part number and revision level, including Aerojet furnished parts, when applicable.

Standard purchase parts shall be lot controlled. Fabricated parts shall be identified with serial number, lot number, heat number, drawing and specification with applicable revision letter or number. Components in the assembly shall be traceable to records of acceptance by part number, serial number, lot number, of material from which the components were fabricated by the Supplier, and shall accompany parts they represent to Aerojet.

**H2** SELLER CONTROLLED PRODUCTS - A copy of applicable specifications, drawings and/or catalog fly sheets must accompany only the initial shipment of parts on this purchase order.

No changes shall be made on subsequent shipments against this purchase order unless authorized by Aerojet.

- H3** STATISTICAL PROCESS CONTROL (SPC) - The product manufactured under this purchase order has been identified as a material in which Statistical Process Control analysis may be used for acceptance. Acceptance methodology and reporting must be approved via the VIR by Aerojet prior to manufacture.
- H4** Documentation Retention - Documentation supporting requirements of this Purchase Order shall be maintained on file for a minimum of ten (10) years after completion of this Purchase Order. This documentation shall include, but is not limited to: material certifications, test coupons, manufacturing and inspection records, radiographs, and test reports. Aerojet shall be notified thirty days prior to disposal of documentation. Aerojet reserves the right of access for Aerojet, Aerojet's customer/Government/Regulatory Authorities (when accompanied by Aerojet) to all applicable records.
- H5** Documentation Retention - Documentation supporting requirements of this Purchase Order shall be maintained on file for a minimum of twenty (20) years after completion of this Purchase Order. This documentation shall include, but is not limited to: material certifications, test coupons, manufacturing and inspection records, radiographs, and test reports. Aerojet shall be notified thirty days prior to disposal of documentation. Aerojet reserves the right of access for Aerojet, Aerojet's customer/Government/Regulatory Authorities (when accompanied by Aerojet) to all applicable records.

## **PACKAGING**

- J1** PACKAGING - Item(s) called for in this Purchase Order shall be preserved and packaged in accordance with MIL-P-116, unless otherwise specified in the Purchase Order.
- J2** OVERSEAS PACKAGING - The Supplier shall certify compliance to the Purchase Order requirement for overseas packaging. This certificate shall be authenticated and approved by the Aerojet Procurement Department representative.
- J3** SINGLE PACK 'O'-RINGS - "O"-rings shall be packaged one (1) unit per package in a manner that will prevent moisture damage, foreign matter or contamination prior to use by Aerojet. As a minimum, each package shall be identified with:
1. Aerojet Stock Item Number
  2. Military/Aerospace Part Number (when not applicable, use the commercial part number).
  3. Purchase Order Number.
  4. Manufacturer's Compound Number.
  5. Manufacturer's Batch Number.
  6. Cure Date.

This requirement supersedes any conflicting packaging and packing requirements imposed by applicable "O"-ring specifications.

**J4** PACKAGING OF BULK ROLLS OF RUBBER INSULATION - Packaging shall be in accordance with good commercial practices to insure the safe and undamaged receipt of the materials to Aerojet, to include the following requirements.

1. Each roll of rubber insulation will be individually boxed to allow handling and storage of single rolls. Rolls will be boxed to preclude damage to the center cardboard tube.
2. Each roll will be limited to a maximum of 200 Lbs (including packaging). The minimum weight of each roll shall be no less than 50 lbs. net weight of rubber, not to include packaging materials.
3. Each roll will be labeled on the inside of the center cardboard tube with the following information:
  - a. Part Number / Specification Number
  - b. Lot Number
  - c. Material description
  - d. PO Number
  - e. Date of Manufacture
  - f. Expiration Date