

QUALITY PROGRAM PROVISIONS (PURCHASE ORDERS)

Section I. General Requirements Applicable to all Purchase Orders

The following Quality Program Provisions, with their terms and conditions become an integral part of the Purchase Order to the extent specified in the Purchase Order. **IMPORTANT**; Refer to Notes "A" through "M" for REQUIREMENTS APPLICABLE TO ALL PROCUREMENTS. SHIPMENT WILL NOT BE CONSIDERED COMPLETE AND INVOICE WILL NOT BE HONORED UNTIL REQUIREMENT (S) ARE FULFILLED.

A. CHANGE OF PRODUCT OR PROCESS

The Seller/Manufacturer is not authorized to implement changes in product design, product material(s), DRS Sustainment Systems Inc. (SSI) specific control processes, or other SSI controls, without written approval from SSI.

B. SUPPLIER CORRECTIVE ACTION REQUEST

Supplier Corrective Action Request will be forwarded by DRS SSI to a Supplier when DRS SSI Quality Assurance considers formal corrective action essential. The supplier shall give priority to analysis of cause and proposed corrective action. It is mandatory that replies be received within the period indicated on the Supplier Corrective Action Request. Failure to comply will result in the removal of Supplier from the Approved Supplier's Listing, i.e.; system will not allow issuance of new Purchase Orders and/or shipments against existing contracts.

C. MATERIAL/PRODUCT CONFORMANCE

Seller agrees that material/product supplied on this Purchase Order conforms in every respect to applicable specifications and/or drawings. Evidence of conformance to applicable specifications must be furnished on request. (See Requirements 1 through 40).

Note: The applicable documentation shall be maintained by the Seller for a minimum of 5 years *from date of final acceptance*, or longer if specified by the Purchase Order.

D. CONTROL OF SUB-TIER SUPPLIERS

The Seller is responsible for control/conformance of all items procured from sub-supplier to the applicable requirements of the Purchase Order/Contract, accompanying documentation, drawings and specifications. Casting, forging and special process sources (see Paragraph 6) *must* be approved by DRS SSI's Quality Assurance Department.

E. SPECIFICATION COMPLIANCE

Where a specification is referred to herein, it shall be considered as being of date of issue as of the date of this Purchase Order or a firm quotation, whichever is earlier.

F. NONCONFORMING MATERIAL

The seller is not authorized to perform material review action of nonconforming materials with the intent of delivering such nonconforming materials without the express written authorization from DRS SSI. Disposition of any departures from drawings, specifications or other purchase order requirements must be approved by DRS SSI's Quality Assurance Department prior to shipment, with such approval accompanying that shipment.

G. RESUBMIT TO DRS SSI REJECTED MATERIAL

All material rejected by **DRS SSI** and subsequently resubmitted by the supplier to **DRS SSI** shall bear adequate identification of such resubmission either with the material or on the supplier's document. Reference shall be made to **DRS SSI's** rejection document and evidence given that the causes for rejection have been corrected. Government Source Inspected (GSI) Material must have evidence that the resubmission has also received GSI.

H. GOVERNMENT SURVEILLANCE — MILITARY CONTRACTS

"The Government has the right to inspect any or all of the work included in this order at the supplier's plant." Government inspection or releases of product prior to shipment is not required unless you are otherwise notified. You shall provide a copy of this order to your Government representative upon his request.

I. SHIPPING DOCUMENT INFORMATION

All shipping document information must contain the following information:

- **DRS SSI's** Purchase Order Number.
- *Quantity, Description, and Part Number.*
- Name of supplier.

J. SINGLE PROCESS INITIATIVE

As a result of the Government's approval of **DRS SSI's** Single Process Initiatives on calibration and soldering, **DRS SSI** has been authorized to replace MIL-STD-45662 and MIL-STD 454, Requirement 5 with equivalent military standards ANSI/NCSS Z540-1 and J-STD-001, respectively, as governing documents in the manufacture and delivery of products/materials on this order. The supplier is authorized to use the same equivalent industry standards, at no cost or schedule impact to **DRS SSI**.

K. MANUFACTURER'S CAGE CODE MARKING

When drawings specify part marking per MIL-STD-130 with a MFR cage code but do not specify whose code is to be used, the MFR cage code shall be the Seller's cage code unless otherwise specified in the Purchase Order.

L. QUALITY SYSTEM

The Seller shall maintain a Quality System adequate to assure that supplies and services required by this Purchase Order meet all of the applicable requirements. The system shall also provide for the maintenance of records and data of all inspections and tests performed and shall make these records available for examination and verification upon request.

M. Source of Supply:

Suppliers are responsible to ensure compliance for materials used to manufacture parts supplied to DRS Technologies. Suppliers will only purchase materials from Original Equipment Manufacturers (OEM's), Original Component Manufacturers (OCM's), standard catalogues, or the OEM/OCM authorized franchised distributors. Purchasing from independent brokers or other sources is not authorized unless approved in writing by DRS Technologies.

Suppliers of electronic components will have an established counterfeit avoidance program. That program will include a process for component authentication/testing with verified traceability to the OCM. Supplier programs that are not certified to CCAP 101 or audited to SAE AS5553 will be approved in writing by DRS prior to providing electronic components or production assemblies with electronic components.

Section II. Special Quality Notes as Specified by Purchase Order

1. GOVERNMENT SOURCE INSPECTION (GSI) REQUIRED

Government inspection is required in your plant prior to shipment of specified product. Upon receipt of this order, properly notify the Government representative who serves your plant so that the Government Inspection Planning can be accomplished. Government representative's **signature** and date of inspection *must* appear on packing slip or invoice in accordance with DFAR Appendix F. Part 2, Paragraph F-201.

Deliverable: Government Representative's stamp and date required on packing slip or invoice.

1S. GOVERNMENT SOURCE SURVEILLANCE

Immediately upon receipt of this Purchase Order, contact the DCMA Quality Assurance Representative who normally services your plant. If you cannot locate the cognizant DCMA office, the buyer is to be notified immediately.

During the performance of Purchase Order requirements, your Quality System, Manufacturing Processes and Testing of this product are subject to surveillance by authorized Government personnel. The seller shall make available all applicable products, processes and records and furnish all reasonable facilities and assistance necessary for the safe and convenient performance of surveillance and or inspection.

Government surveillance does not constitute product acceptance or certification of systems or processes by either Buyer or Government, and does not relieve the seller of any of the requirements of the Purchase Order.

Government mandatory product inspections (GSI), process buyoffs, release of product prior to shipment or final inspections are not required, but may be imposed temporarily, when deemed necessary by the Government Representative or when directed by the delegating authority.

Deliverable: The seller must communicate the surveillance plan and any changes to the plan to DRS Supplier Quality Assurance at SSIsqastl@drs.com within 30 days of receipt of order and any subsequent changes to the plan.

2. DRS SSI SOURCE INSPECTION REQUIRED

DRS SSI Source Inspection is required in your plant prior to shipment of specified product. The Seller shall furnish, at no cost to **DRS SSI**, test data, equipment and facilities necessary to accomplish product inspection to applicable drawings, specifications and other requirements. **DRS SSI's** Field Quality Representative reserves the right to re-inspect or re-test specified product, review processes, and review/audit facilities. FINAL ACCEPTANCE OF PURCHASED PRODUCTS SHALL BE AT **DRS SSI** FACILITIES. **DRS SSI's packaging slip and / or shipper shall be** stamped by **DRS SSI's** Field Quality Representative, **and** must accompany shipping documents. When requesting source inspection, *contact DRS SSI's* Source Scheduling Service at least *five (5) working days* in advance *by going to internet address <http://www.drs.com/suppliers>, downloading form and entering the applicable data.*

Deliverable: **DRS SSI** Field Quality Representative's stamped **packaging slip and / or shipper** required with each shipment.

3. TEST REPORTS — CHEMICAL/PHYSICAL REQUIRED

Each shipment of specified product/material must be accompanied by a legible and reproducible copy of actual reports of testing performed in accordance with specifications or Purchase Order requirements, identifiable to product/material submitted. These reports must contain the signature and title of an authorized representative performing the test.

Deliverable: Legible and reproducible copy of chemical/physical test reports must accompany each shipment.

4. FUNCTIONAL TEST REPORTS REQUIRED TO BE RETAINED

A legible and reproducible copy of actual test results identifiable with test parameters defined by drawing or governing specification shall be maintained by the supplier for a minimum of 5 years from the date of final acceptance, or longer if specified by the Purchase order. . These reports must assure conformance to specification requirements and contain signature of an authorized representative of the agency performing the test. Test Reports and evidence of conformance to applicable specifications must be furnished with any required First Article Report and upon request for subsequent shipments.

Deliverable: Upon request, a legible and reproducible copy of results of test parameters defined by drawing(s)/specification(s) shall be furnished. Test reports must assure conformance to drawing(s) or specification(s) and contain signature of authorized representative of testing agency.

5. GOVERNMENT Q.P.L. SOURCE CERTIFICATION REQUIRED FROM DISTRIBUTOR

Distributor, Certification that the product/material was produced by an approved supplier on the Government's Qualified Parts List must be provided by either of two methods.

Method 1: Providing a reproduced copy of the shipping document from the original manufacturer.

Method 2: A certified statement such as "We hereby certify that product/material supplied on this order complies in every respect with the manufacturer's specifications and/or drawings referenced on the order. We further certify that all Q.P.L. product/material was produced by an approved supplier on the Government Qualified Parts List. " The certification must contain the signature and title of an officer of the Seller, Purchase Order number and DRS SSI's Part Number. If this method is used, the part marking and/or packaging must also provide clear evidence that the product/material was manufactured by an approved manufacturer on the Government's Qualified Parts List. Evidence shall as a minimum include the manufacturer's cage code along with the date code and manufacturer's production lot code, if applicable.

Deliverable: *Method 1:* Copy of shipping document from original manufacturer. *Method 2:* A certified statement that product/material was produced by an approved supplier on the Government's Qualified Parts List.

6. SPECIAL PROCESS CERTIFICATION REQUIRED

Each shipment of specified product/material must be **accompanied** by a legible and reproducible copy of QS Form 7-1.2f3 certification, or equivalent, containing special process completed and signature and title of an authorized representative of the *supplier*/agency performing *any special process*. When parts are serialized, the serial numbers must appear on the certification. Special processes requiring certification are adhesive bonding, brazing, conversion coating, cleanliness and cleaning methods, *painting*, special finishes, heat treating, insulation, peening, plating, potting, pretreatment, *and* specialized fabrication techniques. All special processes must be performed **by a NADCAP approved source** or approved by **DRS SSI Supplier Quality Management**.

Deliverable: Legible and reproducible copy of QS Form 7-1.2f3, or equivalent, containing special processing completed and signature and title of authorized representative of *the supplier*/agency performing *each special process*. When serialization is required, serial numbers must appear on certification(s).

7. FUNCTIONAL TEST REPORTS REQUIRED

Product shipment must be accompanied by a legible and reproducible copy of actual test results identifiable with test parameters defined by drawing or governing specification. These reports must assure conformance to specification requirements and contain signature of an authorized representative of the agency performing the test.

Deliverable: Legible and reproducible copy of results of test parameters defined by drawing(s)/specification(s). Test reports must assure conformance to drawing(s) or specification(s) and contain signature of authorized representative of testing agency.

8. ISO 9001 QUALITY SYSTEM REQUIREMENTS

The seller must comply with ISO 9001 Quality System Requirements, in the manufacture and delivery of these products/materials.

Requirement: ISO 9001 Registration Certificate or **DRS SSI** Survey.

9. COMMERCIAL MANUFACTURER'S QUALITY SYSTEM

I. Seller's Responsibility:

A. Seller shall maintain and, on request, make available to Buyer, adequate records of calibrations, measurements, tests, control of configuration revisions, and other objective evidence necessary to assure that the raw materials and/or electronic components used in the manufacture of items and other supplies/services supplied meet all applicable specifications and quality requirements of this Purchase Order.

1. Seller certifies that all materials and/or parts furnished to satisfy the requirements of this Purchase Order are from original equipment manufacturers authorized franchised distributors for the items, or subcontractors to whom the requirements of this attachment are made applicable.

2. Reports shall be made available to the DRS Field Engineer (FE) or designate, or copies supplied to the Buyer upon request.

B. Tools, gauges and test equipment utilized to meet the requirements of this Purchase Order shall be calibrated at established intervals against standards traceable to the National Institute of Standards & Technology (NIST).

II. Inspection/Surveillance:

Buyer and authorized government representatives (if a government contract is involved) reserve the right to enter Seller's plant(s) or those of Seller's suppliers at every tier, that may be engaged in work relating to this Purchase Order, at reasonable times, for the purpose of surveillance/inspection of the Seller's (and Seller's suppliers) processes, controls, quality records, and systems, as well as supplies/services procured under this Purchase Order. Surveillance/inspection of Seller's processes and controls will not constitute acceptance of the supplies/services being procured.

III. Discrepant Material:

When Seller's quality personnel determine that the supplies/services to be submitted for Buyer's acceptance depart from the specified requirements of this order and that rework to specifications is not practical, the items in question shall be identified as discrepant and withheld pending Buyer's disposition. Seller is required to submit detailed descriptions of discrepancies to the Buyer for formal disposition instructions.

IV. Stock room controls must require Seller to:

- A. Practice the "first in first out" principle of stock control.
- B. Identify the quality status of material.
- C. Provide for and maintain adequate control of all material in its stock room.
- D. Identify and segregate material.
- E. Have a method of removing obsolete and unacceptable supplies.
- F. Maintain shelf-life controls over all material where applicable.

V. Shipment Controls must require Seller to:

A. Provide the proper handling, identification, and packaging of material shipped to Buyer.
Requirement: Quality System Registration Certificate or DRS SSI Survey.

10. SPECIAL QUALITY REQUIREMENTS

The seller must comply with special requirements as specified in detail on the Purchase Order.

Deliverable: As required by Purchase Order.

11. CERTIFICATION OF SOLDERABILITY REQUIRED

Electronic part(s)/component(s) supplied on this order *must be of a date code no older than one year from the date of receipt by DRS SSI. Electronic part(s)/component(s) supplied under this purchase order which do not meet the one year requirement shall meet the solderability requirements of MIL-STD-202, Method 208 or applicable specification for military grade parts, or ANSI/IPC-S-805 equivalent for commercial grade parts.*

Deliverable: *Seller's written certification to applicable solderability requirements, if date code older than one year.*

12. DRS SSI IN-PROCESS INSPECTION REQUIRED (HERMETICALLY SEALED ITEMS)

Items covered by Purchase Order require in-process inspection by DRS SSI's Quality Field Representative prior to the hermetic sealing of any permanent or difficult to disassemble enclosure. The Seller must notify Source Scheduling Service ten (10) days prior to required inspection coverage. *Contact DRS SSI's Source Scheduling Service at e-mail address SSIsqastl@drs.com*

Deliverable: Conformance noted on AEC by DRS SSI Field Quality Representative.

13. X-RAY REPORTS REQUIRED

Item(s) require(s) radiographic inspection. *The Seller must submit a legible and reproducible copy of an x-ray report for each item. The report shall include the name of the individual reading the film and the signature and title of an authorized laboratory representative. Control number(s) are to be assigned to each part and must appear on film and reports.*

Deliverable: *A legible and reproducible copy of x-ray reports per item. Control numbers are to be utilized. Submit with First Article. For units delivered after the First Article, Supplier shall retain on file pursuant to Note 36.*

14. MAGNETIC PARTICLE INSPECTION REPORT REQUIRED

Items require magnetic particle inspection. The seller must provide reproducible copy of the magnetic particle inspection report and/or certification inspection was performed. The magnetic particle inspection must be performed by certified operators and/or inspectors. Magnetic particle inspection requirements are as specified by drawing and/or purchase order. The magnetic particle inspection reports shall include the name of the individual performing the magnetic particle inspection, signature of the authorized representative of the certifying agency, date of inspection, and assurance of conformance to applicable specifications referenced in applicable drawing and the purchase order.

Deliverable: *Legible and reproducible copy of the magnetic particle inspection report. Submit with First Article. For units delivered after the First Article, Supplier shall retain on file pursuant to Note 36.*

15. WIRE IDENTIFICATION REQUIRED

Seller must identify each package or spool of wire permanently and legibly with (1) DRS SSI's Purchase Order Number, (2) Gauge, (3) Military Specification, or (4) DRS SSI's Specification Number (if applicable).

Deliverable: Supplier must identify each package or spool with Purchase Order Number, Gauge, Military Specification/DRS SSI's Specification Number.

16. INSPECTION REPORT REQUIRED

Seller must provide detailed inspection report, to be completed by the seller for each shipment of the specified item to DRS SSI Corp. Specified items having a Quality Assurance Provision (QAP) or a Supplemental Quality Assurance Provision as required by drawing will have the applicable QAR or SQAP provided as part of the drawing package. The inspection report shall include the signature of the person performing the inspection, sample size, accept/reject information, and conformance to the applicable specifications.

Deliverable: *Legible and reproducible copy of inspection report with each shipment.*

17. WELDING PROCESS CERTIFICATION REQUIRED

Specified items are to be manufactured to weld process specifications as required by the drawing and purchase order. All sub-tier Welding Suppliers to Seller must be approved by DRS SSI. Weld Processes and welder qualification must be conducted in accordance to the applicable specification. *Written weld procedures as well as objective evidence of welder qualification, including workmanship samples, must be submitted to and approved by DRS SSI Supplier Quality Management prior to the beginning of production for DRS SSI. Copy of weld procedures and welder qualification will be retained on file at DRS SSI. In addition, the Seller must provide written certification with each shipment, that the material furnished was welded in accordance with the applicable specifications, by qualified welders and all procedures as well as workmanship samples have been submitted and approved by DRS SSI.*

Deliverable: *Legible and reproducible copy of DRS SSI Approved Weld Procedures and Welder Qualification (prior to production). With each shipment, Seller's written certification statement to the applicable welding specification requirements. Submit with First Article. For units delivered after the First Article, Supplier shall retain on file pursuant to Note 36.*

18. PENETRANT / ULTRASONIC TESTING INSPECTION REPORT REQUIRED

Items require penetrant/and or ultrasonic testing inspection. The seller must provide reproducible copy of the inspection report and/or certification inspection was performed. The inspection must be performed by certified operators and/or inspectors. Inspection requirements are as specified by drawing and/or purchase order. The inspection reports shall include the name of the individual performing the inspection, signature of the authorized representative of the certifying agency, date of inspection, and assurance of conformance to applicable specifications referenced in applicable drawing and the purchase order.

Deliverable: Legible and reproducible copy of the penetrant/and or ultrasonic test inspection report. *Submit with First Article. For units delivered after the First Article, Supplier shall retain on file pursuant to Note 36.*

19. WELDER'S STAMP REQUIRED

Certified welder's stamp must appear on all items welded in accordance with the specification of **SAE-AMS-STD-1595/AWS B2.1**.

Deliverable: Welder's stamp required on item(s).

20. IDENTIFICATION OF LIMITED SHELF LIFE REQUIRED

The Seller must identify each shipment of limited calendar life material with the manufacture date, storage temperature and manufacturer's recommended shelf life, in addition to the normal identification requirements of Name, Type, Size, and Quantity. Identification and special handling conditions must be recorded on the shipping document.. Each limited calendar life material, must be received with a minimum of 80% of the manufactures recommended shelf life remaining.

Deliverable: Identification required indicating manufacturing date, storage temperature and recommended shelf life, in addition to requirements of name, or code number, specification number, type, size and quantity. Identification and special handling conditions must be recorded on the shipping document.

21. FIRST ARTICLE INSPECTION REQUIRED (VERIFICATION AT SHIP-TO DESTINATION) (REPLACED By QC 38)

22. *(Reserved for future use.)*

23. HYDRAULIC CLEANLINESS CERTIFICATION REQUIRED

Specified items are required to meet standards of hydraulic cleanliness as required by applicable drawings/ purchase order(s). Seller must provide certification that the items meet the requirement as shipped and are sealed (i.e., plugs, etc., as specified on drawing/purchase orders) to prevent contamination during shipment and storage. In the absence of any cleanliness standard not provided on the drawing, all components as a minimum shall be protected to prevent contamination (i.e. dust plugs, package preservation etc.).

Deliverable: Certification to cleanliness level with each shipment.

24. SELLER CONTROLLED PRODUCTS/MATERIALS

Shipment of products/materials must be accompanied by a legible and reproducible copy of applicable specifications, drawings, and/or catalog information.

Deliverable: Legible and reproducible copy of applicable specifications, drawings, and/or catalog information.

25. PRINTED WIRING BOARD RIGID AND FLEXIBLE PRINTED WIRING

The Seller shall furnish with each shipment of Rigid and Flexible Type 2 and 3 printed wiring, a *certification that the applicable specifications as stated on the drawing or in the Purchase Order are met. Seller shall furnish* one (1) coupon for each panel processed per part number, one (1) cross-sectioned mount per part number showing the plated through hole and one (1) cross-sectioned mount after the Thermal Stress Test. The cross section shall represent "x" and "y" directions of the panel, i.e., one cut in the "x" direction and one in the "y" direction. All deliverables shall include traceability to date code/lot/serial number of the PWB manufactured. Boards to be individually bagged, but NOT HEAT SEALED.

Deliverable: Seller's written certification to applicable specification as stated on the drawing or Purchase Order, and applicable coupons.

26. EXTERNAL THREADED FASTENER REQUIREMENTS

Seller must provide test report data per the following applicable sections.

- 1) Hex cap Screws: (Inch)
SAE J429/FF-S-85 Certification Required
Specified items are at least a Grade 5 fastener as defined in SAE J429.
FF-S-85 applies in full (latest revision).
Head markings shall conform to SAE J429 and shall include the manufacturer's identification symbol.
- 2) Hex cap screws: (Metric)
SAE J1199 or ASTM F568 Certification Required. Certification to DIN or ISO equivalent acceptable.
Specified items are at least property class 8.8.
- 3) Alloy Steel Hex Socket Cap Screws: (Inch)
ANSI/ASME B18.3 Test Certification Required
- 4) Alloy Steel Hex Socket Cap Screws: (Metric)
ANSI/ASME B18.3 Test Certification Required. Certification to DIN or ISO equivalent acceptable.
- 5) Any externally threaded fastener not defined above shall be tested per requirements defined by **DRS SSI's** drawing and applicable specifications. These requirements are applicable to fasteners with a tensile strength of 120,000 PSI or greater.

Deliverable: Legible and reproducible copy of chemical, physical and plating reports, as required, as well as certification to the applicable requirements and purchase order.

27. STATIC SENSITIVE DEVICES — SPECIAL HANDLING AND IDENTIFICATION REQUIRED

Parts that are static sensitive are to be handled and packaged to prevent electrostatic damage. Packaging shall be in accordance with Paragraph 5.11 of MIL-STD-1686. Containers shall be identified as static sensitive and marked per MIL-STD-129.

Deliverable: Packaging to conform to MIL-STD-1686, or applicable procurement document. Smallest unit container to be identified as electronic device per MIL-STD-129.

28. HAZARDOUS MATERIAL/MSDS AND MANUFACTURER'S PRODUCT/TECHNICAL DATA SHEETS

Seller must ship one (1) copy of Material Data Sheet (MSDS) meeting OSHA standards and one (1) copy of Manufacturer's Product/Technical Data sheets, with this order.

Deliverable: One (1) copy of MSDS and one (1) copy of Manufacturer's Product/Technical Data Sheets, with this order.

29. MANUFACTURER'S TRACEABILITY DOCUMENTATION — MIL-PRF-19500/MIL-M-38510/MIL-PRF-38535 REQUIRED

Manufacturers or Suppliers including distributors of QML microcircuits described by these specifications shall submit the certifications prescribed by MIL-PRF-19500, paragraph 3.7 or MIL-PRF-38535, paragraph 3.2.1 (applies for MIL-M-38510 microcircuits).

Deliverable: Copy of certification prescribed by MIL-PRF-19500 or MIL-PRF-38535 must accompany each shipment.

30. DELETED 2-98

31. DRS SSI FURNISHED MATERIAL

Item(s) supplied on this order are fabricated from **DRS SSI** furnished material. Seller is responsible for processes specified on Purchase Order/Drawing(s). Seller responsible for processes specified on Purchase Order/ Drawing(s).

32. FASTENER QUALITY ASSURANCE PROGRAM IS REQUIRED

Specified items are or may contain at least Grade 5 Fasteners as defined in SAE J429. Supplier is required to maintain a Fastener Quality Assurance Program. Specific details are included with the purchase order by a Fastener Quality Assurance Program Outline.

Deliverable: Fastener Quality Assurance Program which has been approved by **DRS SSI's** Quality Assurance.

33. QUALIFICATION TEST

Qualification test reports are required. Component(s) must be subjected to specific test methods or procedures, as outlined by drawing or governing specification(s). Changes of source location, any configuration change or addition of new sources require complete qualification testing. Qualified sources must re-qualify when component(s) have been out of production for more than one (1) year.

Deliverable: Qualification Test Reports per drawing/specification(s) REQUIRED IF new seller, change of source location, configuration changes, or part out of production more than one (1) year.

34. J-STD-001 — STANDARDS FOR ELECTRICAL AND ELECTRONIC ASSEMBLIES

The seller must comply with industry standard J-STD-001 in the manufacture and delivery of products/materials on this order. The alternate industry standard has been approved by the Government as a result of **DRS SSI's** Single Process Initiative on soldering requirements. The supplier is authorized to use the same equivalent industry standard at no cost or schedule impact to **DRS SSI**.

Deliverable: Certification documentation to J-STD-001. *Submit with First Article. For units delivered after the First Article, Supplier shall retain on file pursuant to Note 36.*

35. STATISTICAL PROCESS CONTROL (SPC) PLAN REQUIRED

Supplier is required to submit and maintain an SPC Plan for specified item. The plan shall include the methods used to control the major characteristics of the specified item, and data exchange with **DRS SSI**. The statistical methods shall be in accordance ANSI/ASQC B1/B2/B3-1996 - Guide for Quality control Charts/Control Chart Method of Analyzing Data/Control Chart Method of Controlling Quality During Production. The plan shall be submitted to **DRS SSI**'s Quality Assurance for approval prior to production.

Deliverable: Approved SPC Plan. Data exchange as required by the plan.

36. MATERIAL/PRODUCT CONFORMANCE

Seller's delivery of items under this Purchase Order shall be deemed as Seller's certification that such items meet and conform to all requirements of the Purchase Order including but not limited to any and all specifications, drawings, samples or other descriptions furnished or adopted by Buyer. In any case, documented evidence that delivered items conform to all requirements of the Purchase Order shall be on file at the Seller's Facility for a minimum of *five (5) years from date of final acceptance* or longer (if specified by the Purchase Order), and available for review upon request.

This Note does not relieve the Seller from submitting certifications and data required by Purchase Order Special Line Item Text and other Special Quality Notes.

37. FIRST ARTICLE INSPECTION REQUIRED (VERIFICATION AT SOURCE)

*Prior to initial production deliveries and for each configuration change/drawing revision thereafter, an **DRS SSI**-approved First Article Inspection Report (FAIR) is required. This FAIR will be generated by the Seller from one or more parts/items/units that have been produced by processes, tooling and personnel that are representative of and identifiable to Seller's production process/system.*

For each drawing revision after the initial FAIR, an approved Supplemental FAIR is required before delivery of production units of the revised configuration. The supplemental FAIR shall as a minimum address the changes and any other characteristics affected by the change.

*After a lapse in production deliveries to **DRS SSI** of **24 months** or more, a new FAIR must be approved by **DRS SSI** prior to resumption of production. However, if Seller has delivered the same configuration to other customers in the last **24 months**, **DRS SSI** may waive First Article upon receipt of Seller's written notification.*

Prior to delivery of the first production lot, Seller is responsible for correction of all Seller-responsibility nonconformance found as a result of the First Article Inspection.

The FAIR FORMAT SHALL BE PER AS9102

- a.) *Include **DRS SSI** Part Number (P/N) and drawing Revision Level. If part is purchased to Seller's Part Number, it shall list the Seller's P/N and drawing Revision Level.*
- b.) *Include a comparison listing of drawing dimensions, tolerances, and record of actual measurements against these requirements.*
- c.) *Document compliance to all drawing notes.*
- d.) *Document compliance with all technical requirements of the Purchase Order, including Special Quality Notes and Special Line Item Text. The FAIR shall enclose copies of any test reports, certifications, or other documentation required by the Purchase Order text, Special Quality Notes, and Special Line Item Text.*
- e.) *Be signed by Seller's authorized Quality agent stating that all requirements are satisfied.*

For production of castings or forgings requiring Radiographic Inspection (RT), Magnetic Particle Inspection (MT), Liquid Penetrant (PT) or Ultrasonic Inspection (UT), the First Article Inspection Report shall include copies of applicable RT, MT, PT or UT Techniques, which have been approved by Seller's Level III NDT examiner.

*Shipment of the first production lot shall not be made until **DRS SSI** has notified Seller of FAIR approval.*

The FAIR shall be submitted to by email to:

*FOR SHIP TO DESTINATION OF WEST PLAINS, MO. (**SSIFAIR-WP@drs.com**)*

*FOR SHIP TO DESTINATION OF ST. LOUIS, MO. (**SSIFAIR-STL@drs.com**)*

*Following initial review of the FAIR, **DRS SSI** will verify the FAIR at the Seller's facility by actual measurements of the First Article part/item/unit, witnessing of applicable Acceptance Test Procedures and an in-process audit of the Seller's production processes and process controls. The Seller must perform the First Article Inspection at the assembly and detail parts level. The use of sub-tier supplier, receiving inspection, in process and final inspection data may be acceptable. **DRS SSI** reserves the right to disassemble the First Article if necessary to verify all drawing requirements. If representative subassemblies or detailed components are available from other work in process, disassembly of the First Article may not be required. The parts used to satisfy the First Article Inspection requirement must be available to **DRS SSI** and must be traceable to Seller's inspection and test results. If the First Article parts are destroyed or rendered unsuitable for the intended use as a result of the First Article process, these parts shall not be counted towards meeting delivery quantity requirements.*

*Supplemental FAIRs will normally be verified at the Seller's facility. **DRS SSI** may elect to have the First Article part/item/unit shipped to an **DRS SSI** facility for verification of supplemental FAIRs.*

Deliverable: *Legible and reproducible copy of the First Article Inspection Report and the First Article Part/Item/Unit for **DRS SSI** approval prior to delivery of the first production lot, unless otherwise specified by the Purchase Order.*

38 FIRST ARTICLE INSPECTION REQUIRED (REPORT ONLY)

Prior to initial production deliveries and for each configuration change/drawing revision thereafter, an **DRS SSI**-approved First Article Inspection Report (FAIR) is required. This FAIR will be generated by the Seller from one or more parts/items/units that have been produced by processes, tooling and personnel that are representative of and identifiable to Seller's production process/system.

For each drawing revision after the initial FAIR, an approved Supplemental FAIR is required before delivery of production units of the revised configuration. The supplemental FAIR shall as a minimum address the changes and any other characteristics affected by the change.

After a lapse in production deliveries to **DRS SSI** of **24 months** or more, a new FAIR must be approved by **DRS SSI** prior to resumption of production. However, if Seller has delivered the same configuration to other customers in the last **24 months**, **DRS SSI** may waive First Article upon receipt of Seller's written notification.

Prior to delivery of the first production lot, Seller is responsible for correction of all Seller-responsibility nonconformance found as a result of the First Article Inspection.

The FAIR FORMAT SHALL BE PER AS9102

- a.) Include **DRS SSI** Part Number (P/N) and drawing Revision Level. If part is purchased to Seller's Part Number, it shall list the Seller's P/N and drawing Revision Level.
- b.) Include a comparison listing of drawing dimensions, tolerances, and record of actual measurements against these requirements.
- c.) Document compliance to all drawing notes.
- d.) Document compliance with all technical requirements of the Purchase Order, including Special Quality Notes and Special Line Item Text. The FAIR shall enclose copies of any test reports, certifications, or other documentation required by the Purchase Order text, Special Quality Notes, and Special Line Item Text.
- e.) Be signed by Seller's authorized Quality agent stating that all requirements are satisfied.

Shipment of the first production lot shall not be made until **DRS SSI** has notified Seller of FAIR approval, unless otherwise specified by the Purchase Order.

The FAIR shall be submitted to by email to:

FOR SHIP TO DESTINATION OF WEST PLAINS, MO. (SSIFAIR-WP@drs.com)

FOR SHIP TO DESTINATION OF ST. LOUIS, MO. (SSIFAIR-STL@drs.com)

Verification of the report by comparison with a physical unit/items/unit is not planned, however **DRS SSI** reserves the right to require Seller to ship the First Article part/item/unit for verification prior to approval of the FAIR. Contact **DRS SSI** by e-mail at sqastl@seistl.com for instructions prior to submitting supplemental FAIRs.

Deliverable: Legible and reproducible copy of the First Article Inspection Report for **DRS SSI** approval prior to delivery of the first production lot, unless otherwise specified by the Purchase Order.

39. IN-PROCESS AUDITS

DRS SSI will conduct random in-process audits at Seller's facilities of Seller's quality system, manufacturing processes, and process controls to ensure that processes provide for adequate verification of critical product characteristics, that processes are understood by manufacturing and inspection personnel, and that documented evidence of process control exists. **DRS SSI** will contact Seller in advance of an audit visit to ensure that **DRS SSI** product will be in work.

40. UNIQUE IDENTIFICATION (UID) MARKING REQUIREMENTS

Unique Identification (UID) marking on labels, decals or metal plates shall be per MIL-STD-130M. The UID marking shall have a minimum Grade of B when verified per ISO/IEC 15415. Sampling of the verification of the UID marking requirements shall be per ANSI/ASQC Z1.4 using General Inspection Level II and the Single Sampling Plans for Reduced Inspection at an AQL of 1.0. The first and last UID marking on labels, decals or metal plates of the lot shall be part of the samples that are verified.

Deliverable: A Certificate of Conformance stating that the labels, decals or metal plates were manufactured in accordance with MIL-STD-130M and verified per ISO/IEC 15415. The Certificate of Conformance shall also state the Grade that was achieved when verified per ISO/IEC 15415. A legible and reproducible copy of the verification that was performed on the labels, decals or metal plates of the sample shall be included with each shipment.