



## MSI/DNE PRODUCTS QUALITY PROCUREMENT CODES

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01. QUALITY PROGRAM – Required IAW Supplier Quality Manual, par. 3.1
04. NONDESTRUCTIVE TESTING – The material on this purchase order requires nondestructive testing by a facility and/or personnel certified by a Government agency and/or approved by MSI/DNE Products Quality Assurance. The test results shall be interpreted and evaluated to specifications and standards stated on the drawing or purchase order. A copy of the laboratory test report must accompany the materials to MSI/DNE Products when this method of test is required.
05. IN-PROCESS INSPECTION – In addition to the requirements of MSI/DNE Products source inspection, all items covered by this purchase order are subject to in-process inspection by MSI/DNE Products Quality Representatives. Prior to the application of epoxy/potting materials, any permanent sealing or closure, or the obscuring of operations specified for inspection, the supplier will notify the cognizant buyer within the sufficient time for MSI/DNE Products to supply inspection coverage. Evidence of in process inspection will accompany each shipment.
07. WORKMANSHIP STANDARDS – Required IAW Supplier Quality Manual, par. 4.38
09. HAZARDOUS CHEMICAL INGREDIENTS – Required IAW Supplier Quality Manual, par. 4.15
10. STATIC SUSCEPTIBLE DEVICE – Required IAW Supplier Quality Manual, par. 4.31
11. INSPECTION/TESTS REPORTS – One (1) copy of the final inspection and/or test report denoting conformance with all applicable specifications – including quantitative data – shall be submitted with each shipment.
12. PHYSICAL/CHEMICAL ANALYSIS – The supplier shall submit one (1) copy of the physical and/or chemical analysis report, denoting conformance with all applicable specification for metals used in the material shipped against this purchase order.
14. SPECIAL PROCESSES/METHODS – The supplier shall submit one (1) copy of the test and analysis reports required by the applicable specification for the following special processes and methods: welding; NDE/NDT; and brazing per military specifications.
18. QPL SOURCE – Parts shall be manufactured by sources authorized in the current Qualified Products List (QPL). The parts shall be purchased from a QPL manufacturer or its authorized distributors. To provide traceability to manufacturer’s inspections records, identification shall include the manufacturer’s identity and the lot/date code.
19. CURE EXPIRATION DATES – Required IAW Supplier Quality Manual, par. 4.28
21. TRACEABILITY – Parts, components, and assemblies procured on this purchase order shall be identified with a unique sequential numbering system, so as to determine the origin of the material used.
22. SERIALIZATION – Serialization shall be in accordance with MSI/DNE Product’s specifications.
23. PCB ELECTRICAL TESTING – All printed circuit boards produced require bare board testing in accordance with IPC-TM-650.
24. CERTIFICATION OF CONFORMANCE – Required IAW Supplier Quality Manual, par. 4.32
25. SOURCE INSPECTION – IAW Supplier Quality Manual, par. 4.29
26. GOVERNMENT SURVEILLANCE – Government inspection is required prior to shipment from the supplier’s plant. Upon receipt of the purchase order, the supplier should notify the Government representative who normally services his plant, so the appropriate planning for Government inspection can be accomplished. In the event the representative or office cannot be located, MSI/DNE Product’s purchasing agent should be notified immediately. Evidence of such inspection shall be required upon receipt of material to MSI/DNE Products.
27. SPECIAL HANDLING - Required IAW Supplier Quality Manual, par. 4.30



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29. MARKING – All purchased parts shall be marked in accordance with the latest revision of Specification Marking Method #20005105-000. The Specification Marking Method details how to mark purchased parts (i.e. metal stamp, ink stamp, label...). The drawing for each purchased part will specify the content of the marking.
31. MATERIAL VERIFICATION SAMPLES – The supplier must provide one sample of the material used in the production of the items listed on this purchase order. The sample will be minimum size of 2 in. Square, free of any plating, coating or paint and marked to the attention of the Supervisor, Quality Control.
32. Moisture sensitive components shall be classified for level of moisture sensitivity per J-STD-020, labeled per EIA/JEDEC JEP113-B, and handled, packed, and shipped per J-STD-033.
- 32-1 Moisture sensitive component, level 1 per J-STD-20, labeled per EIA/JEDEC JEP113-B, and handled, packed and shipped per J-STD-033.
- 32-2 Moisture sensitive component, level 2 per J-STD-20, labeled per EIA/JEDEC JEP113-B, and handled, packed and shipped per J-STD-033.
- 32-2a Moisture sensitive component, level 2a per J-STD-20, labeled per EIA/JEDEC JEP113-B, and handled, packed and shipped per J-STD-033.
- 32-3 Moisture sensitive component, level 3 per J-STD-20, labeled per EIA/JEDEC JEP113-B, and handled, packed and shipped per J-STD-033.
- 32-4 Moisture sensitive component, level 4 per J-STD-20, labeled per EIA/JEDEC JEP113-B, and handled, packed and shipped per J-STD-033.
- 32-5 Moisture sensitive component, level 5 per J-STD-20, labeled per EIA/JEDEC JEP113-B, and handled, packed and shipped per J-STD-033.
- 32-5a Moisture sensitive component, level 5a per J-STD-20, labeled per EIA/JEDEC JEP113-B, and handled, packed and shipped per J-STD-033.
38. F-18 Program, Mandatory Flow Downs, [F-840-012](#)
39. First Article Inspection required in accordance with Supplier Quality Manual, par. 4.24
- Raw Material and Process certifications, referencing any/all applicable specifications and revisions, are required from all suppliers. Copies of all certifications from the suppliers and sub-tier suppliers must be forwarded with each shipment as part of the Supplier Certificate of Conformance.
40. “Utilization of Small Business Concerns” - Federal Acquisition Regulation (FAR) 52.219-8 requirements apply to any subcontracting of material, processes or services required to produce this material.
41. Subassembly First Article – A partial subassembly is required for submission as part of the first article. This shall be required when critical dimensions cannot be verified at the final assembly level. MSI/DNE Products shall provide the supplier with sufficient detail to describe the specific sub-level that is to be provided.
42. An in-process inspection checklist (provided by MSI/DNE Products) is to be completed for each assembly and if applicable each subassembly, and is to be submitted with each shipment as part of the Supplier Certificate of Conformance.
43. CABLE ASSEMBLY ELECTRICAL TESTING – Cable assemblies shall be tested to ensure proper end to end continuity and to ensure there are no shorting conditions.
44. Bake at 220 ± 10 degrees F for 6-8 hours. Package in moisture barrier bags with desiccant and HIC card (no high vacuum).



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- 45. SPECIAL PROCESSING - Required IAW Supplier Quality Manual, par. 4.17
- 46. This item requires refrigeration.
- 47. This item is flammable and shall be stored in the flammable cabinet.
- 48. This item shall be placed in the freezer.
- 49. Parts specified on the purchase order must be ROHS compliant.
- 50. Military Avionics Mandatory Flowdown, [F-840-013](#)
- 51. Preference for Domestic Specialty Metals – DFAR 252.225-7014, Alt. 1, latest revision applies. This requirement must be flowed down to each level in the supply chain.
- 52. Authentic parts/Counterfeit Prevention IAW Supplier Quality Manual, par. 4.39 – 4.41
- 53. Quality Note JY – See <http://qnotes.ravtheon.com/>
- 54. Quality Note CT - See <http://qnotes.ravtheon.com/>
- 55. NADCAP Certified/Accredited Special Process Suppliers - Special processes must be performed by MSI/DNE Products approved, NADCAP certified special process supplier. Refer to MSI/DNE Product's controlled list of special process suppliers ([F-840-015](#)) and select a NADCAP certified supplier capable of performing the special process defined per print.
- 56. Lockheed Martin Mandatory Flow Downs ([F-840-011](#))

### Acronyms

IAW – In accordance with

RoHS – Restriction of Hazardous Substances Directive

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