

Microsource Inc

STATEMENT OF WORK

FOR SUPPLIERS OF SUBCONTRACT CONSIGNMENT ELECTRONIC MANUFACTURING SERVICES

1. SCOPE:

This Statement of Work (SOW) defines general requirements for supplying consignment electronics assembly services to Microsource Inc. in support of our high-reliability programs. This SOW is a part of the procurement package, which also includes the Purchase Order associated flow down clause requirements and specific assembly documentation. See section 7 for document order of precedence.

2. QUALITY REQUIREMENTS:

Microsource Inc. is an AS9100 certified company. As a minimum, EMS suppliers are required to have a quality management system that is ISO 9001 certified. We also highly encourage our suppliers to adopt AS9100 certification to assure consistent quality & reliable products and services. For some contracts, only AS9100 certified suppliers will be used.

The following are the Supplier's responsibility:

- ◇ All components installed shall conform to Microsource supplied documentation.
- ◇ All components installed have the correct pin orientation and polarity.
- ◇ Revision level of assemblies/products shall match the Microsource supplied documentation.
- ◇ All soldering shall be performed in accordance with the current revision of IPC/EIA J-STD-001, Class 3 with the following exception: only Sn63Pb37 or Sn60Pb40 solder alloys shall be used. The use of lead-free solder is prohibited unless otherwise specified on the drawing or purchase order. Workmanship of the finished assembly shall conform to current IPC-A-610 Class 3 standards. In the event of conflict between J-STD-001 and IPC-A-610, the requirements of J-STD-001 shall apply.
- ◇ Assembly shall be visibly free of foreign material, scratches, and flux.
- ◇ Assembly shall be in accordance with Microsource QA Clauses and supplied documentation.
- ◇ Assembly shall be individually marked as specified in the applicable assembly drawing.
- ◇ Kit Audits shall be performed. Supplier is to audit kits within an average of 2 days and all discrepancies are to be reported to Microsource Purchasing department.
- ◇ All products that require a deviation to contract requirements must be approved in writing by Microsource.
- ◇ A Certificate of Compliance shall be furnished for all products supplied to Microsource.

3. ACCEPTABILITY:

It is the intent that all assemblies/products are shipped defect-free. Supplier shall incorporate measures and controls that assure conformance with specified requirements. All data from inspection and testing areas which can be used to verify the level of quality of products provided by the supplier shall be made available to Microsource upon request. Microsource shall provide product quality feedback to suppliers as required.

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4. TESTING REQUIREMENTS (as specified in purchase order):

All assemblies/products that require testing using Microsource test fixtures and/or test procedures shall be defined and/or approved by Microsource Inc. All Pass/Fail test data shall be supplied to Microsource upon request.

5. SOLDERABILITY TESTING:

Microsource shall be responsible for the solderability of consigned parts, including Printed Circuit Boards and components, in accordance with the current revision of IPC/EIA J-STD-001.

6. ENGINEERING CHANGES and REVISIONS TO DOCUMENTATION:

Any changes and/or revisions to Microsource documents including purchase orders or drawings must be approved by the Microsource Purchasing department. Microsource Purchasing will inform the supplier of all approved Engineering Change Orders (ECO) or Design Change Notices (DCN), including the approved disposition of work in process, and will furnish updated drawings/documents as applicable.

Any documentation errors (i.e. picklist, bill of material, drawing) shall be reported to Microsource Purchasing department.

7. ORDER OF PRECEDENCE:

NOTE: In the event of conflict, documentation shall be in the following order of precedence:

- ◇ Purchase Order, including accompanying PO QA clauses
- ◇ Approved Deviation(s), or Engineering Change notices (EO or DCN)
- ◇ Bill of Material
- ◇ Assembly Drawing
- ◇ This Statement of Work
- ◇ Microsource Standards
- ◇ Industry Standards

8. REWORK REQUIREMENTS/ACTIONS:

(Actions that will eliminate a nonconformance and return the material to its original or better condition conforming to a Microsource drawing or specification.)

Assemblies/Products that are nonconforming and require rework to drawing requirements shall meet the current IPC-A-610 Class III. Rework requirements will be provided by Microsource.
provided by Microsource.

9. REPAIR REQUIREMENTS/ACTIONS:

(Actions that will eliminate a nonconformance and can be repaired to usable condition but may not conform to Microsource drawings and specifications.)

Repair of Printed Circuit Assemblies is prohibited without prior written authorization by Microsource.

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10. ASSEMBLIES SHIPPED SHORT

Completed jobs being shipped short of part(s) to Microsource shall have the component shortage(s) recorded on the supplier's packing slip, and the Buyer at Microsource must be notified prior to such shipments.

11. HANDLING and PACKAGING REQUIREMENTS:

Protective measures such as ESD and Special handling as defined by Microsource shall be followed.

Packaging and Shipping Personnel shall ensure that all Printed Circuit Assemblies submitted for shipment to Microsource Inc. are packaged in ESD protective tote boxes.

12. FIRST ARTICLE/PIECE INSPECTION:

First Article/Piece inspection shall be performed on all first article assemblies in a lot including: 1) first article/piece inspection; 2) documents; 3) bill of materials; and 4) workmanship, as reviewed by the supplier if required and/or defined by a Microsource purchase order. First article/piece data will be made available to Microsource upon request.

13. SOURCE INSPECTION:

Microsource reserves the right to impose a lot source inspection. The source inspection does not relieve the supplier's responsibility to provide defect-free assemblies.

14. RIGHT OF ENTRY:

Upon providing Supplier with reasonable notice and coordination, Supplier shall allow representatives of Microsource' customers, as long as they are accompanied by representatives of Microsource, to conduct audits and monitor performance as determined necessary.

15. MOVEMENT OF WORK

Supplier agrees that no portion of the manufacturing services being delivered under this Statement of Work shall be relocated to another production facility or outsourced without the express written authorization of Microsource.