



QUALITY ASSURANCE PROVISIONS FOR PURCHASED MATERIALS

Form QF-310, rev C

1.0: **PURPOSE**

The Quality Provisions shown below are an integral part of each purchase order to the extent specified on the purchase order. Materials received that do not conform to the provisions as invoked will be subject to rejection, or other measures as deemed necessary by M Wave Design Corporation.

Suppliers shall implement and maintain a Quality Management System that complies with industry standards providing for the full compliance of M Wave Design purchase requirements.

Q Clause Q1, Q5, Q6A, Q8, Q9, Q11 applies to all purchase orders unless otherwise specified.

Q1: **M WAVE DESIGN SURVEILLANCE**

M Wave Design and/or its customers have the right of access to conduct surveys and audits of seller facility and those of seller's sub-tier suppliers with prior coordination with seller, to determine capability to comply with requirements of the procuring document.

Q2: **M WAVE DESIGN SOURCE INSPECTION (CSI)**

M Wave Design shall perform Source Inspection of material at Seller facility prior to shipment from seller's facility. Vendor is in no way relieved of final responsibility to furnish materials as specified in the procuring document. The supplier shall notify the buyer not less than 5 days in advance of the time that the item(s) are ready for inspection.

Q3: **INSPECTION SYSTEM/QUALITY PROGRAM**

Vendor shall establish, document, and maintain a quality system as a means of ensuring that product conforms to specified requirements, and assures customer satisfaction by preventing nonconformity at all stages. The quality system may be subject to audit by M Wave Design and/or its customers.

Q4: **TRACEABILITY/LOT CONTROL**

Seller shall maintain product traceability in the form of lot or batch numbers. This applies to all materials purchased in raw form through shipment of final product to M Wave Design. Lot or batch numbers shall be documented and supplied on each Certification of Conformance for each delivery.

Q5: **CERTIFICATION OF CONFORMANCE**

A statement of conformance to purchase order requirements must accompany each shipment or partial shipment. The statement shall include the following:

A statement that the items furnished per the procuring document have been manufactured, tested, and inspected in accordance with applicable specifications and drawings and meet the requirements thereof.

A statement that inspections and tests were performed utilizing calibrated equipment that is in conformance with ANSI/NCSL Z540-1 or equivalent.

Q6A: RECORD RETENTION

Seller shall maintain records of all materials, inspections and tests performed on any item delivered to M Wave Design for a minimum of 3 years unless otherwise stated. Records shall identify any non-conformance, and be traceable to a lot number or date code. These records shall be made available to M Wave Design upon request.

Q6B: INSPECTION/TEST RECORDS (SHIPPED WITH MATERIALS)

When Q6B is required, Q6A is automatically invoked but seller shall also include one copy of sellers Inspection/test records with material shipment.

Q7A: RAW MATERIAL CERTIFICATION

All materials shipped, whether raw, semi-finished, or finished, shall be accompanied by a raw material certification stating as a minimum:

Name and location of manufacturer
Material identification by number and material condition as applicable
Raw material manufacturer lot/batch number
Statement of conformance to applicable requirements

Q7B: RAW MATERIAL CERTIFICATION AND ANALYSIS

In addition to Q7A, actual chemical/physical test results/analysis which substantiate compliance with the applicable raw material and /or specification requirements

Q8: NONCONFORMING MATERIAL

Seller shall provide for the identification, control, and segregation of non-conforming material detected at Seller's facility. MRB authority is not granted unless specifically authorized by M Wave Design Corp.

Q9: ITEM IDENTIFICATION

All shipments from Seller's facility shall be accompanied by a packing list containing the following information:

M Wave Design purchase order number
M Wave Design part number/Revision
Quantity shipped
Name and address of Seller

Q10: AGE DATED MATERIAL

Seller shall affix the date of manufacture and shelf life, or date of expiration to each article on this order for which a limited shelf life has been established by the manufacturer.
Material Safety Data Sheet must also accompany shipment.

Q11: PACKAGING REQUIREMENTS

Packaging shall be in accordance with good commercial practice to the extent necessary to provide protection from hazards of contamination and physical damage encountered in general handling, shipping and storage.

Q12: U.S. GOVERNMENT DEFENSE RATING

This procurement is rated for National Defense use, issued under the DPAS.
Seller is required to follow all provisions of the Defense Priority & Allocation System Regulation (15 CFR part 700). Seller's written acknowledgement of purchase order shall constitute acceptance of the DPAS rating. The DPAS rating shall be flowed down to all sub-tier suppliers.

The U.S. Government has the right to inspect any and all work included in the procurement document, at Seller's facility or sub-tier supplier facilities as applicable. Seller's Quality Control or Inspection System and manufacturing processes are subject to review, verification, and analysis by authorized U.S. Government representatives.

Q13: CALIBRATION

The supplier shall maintain a calibration system in compliance with ANSI/NCSL Z540 or ISO10012-1. The supplier's system is subject to audit by M Wave Design.

Q14: FIRST ARTICLE INSPECTION

One sample part positively identified as "First Article" shall be submitted to M Wave Design for inspection and approval prior to shipment of remaining parts.

The supplier shall furnish at time of submittal inspection data performed by the supplier for all part criteria listing dimensions on drawing and actual dimensions obtained.

Q14A: The supplier shall perform an AS9102 first article on one part from the original production lot. The FAI may be in the supplier format provided it meets all applicable elements of AS9102 forms. A new FAI will be required under the following conditions:

- a. When there is a process change
- b. Following rework
- c. Following a revision/configuration change
- d. 2 years have passed since procurement

Q15: PROCESS CONTROL

A process requiring M Wave Design, or its customer approval of processor's facility is being procured on this order. The facility performing such processes, whether the Seller's or a sub-tier of the Seller, must be approved by M Wave Design in advance of actual processing. The Seller is required to call the buyer for the approved facility specific to the applicable process. A Certificate of Conformance to the process specification requirements shall be provided with each shipment.

Q16: REQUIREMENTS FOR DISTRIBUTORS

The distributor (a supplier other than the manufacturer) shall identify the name, location, lot number or date code and original part number of the manufacturer for each item furnished under the procurement documents.

Q17: DFAR

Unless otherwise noted on the purchase order, all items must conform with DFARS 252.225-7001, 252.225-7002, 252.225-7009, and 252.225-7036.

Q18: ITAR CONTROLLED

U.S. export law as contained in the Traffic in Arms Regulations (ITAR) is applicable to information contained on this purchase order. The technical information is not to be placed in the public domain, exported from the U.S., or given to any foreign persons in the U.S. without the prior specific written permission of M Wave Design Corporation, its customer(s) and the U.S. Department of State.

Q19: PROHIBITED MATERIALS

The supplier shall submit certification with product that all construction and finishes does not contain prohibited materials as defined herein. The use of pure cadmium or pure zinc is prohibited. In addition, construction or finishes containing pure tin is also prohibited unless they contain 3 weights percent lead. The use of lead free solder is also prohibited unless otherwise stated on the purchase order.

Q20: F.O.D. FOREIGN OBJECT DEBRIS/DAMAGE PREVENTION

The supplier shall establish and maintain a procedure to prevent F.O.D and potential contamination of materials being shipped to M Wave Design.

Q21: CHANGES

During performance on the contract, the supplier shall not make changes unless authorized in writing by M Wave Design.

Q22: COUNTERFEIT CONTROL/PREVENTION

The supplier's Certification of Conformance represents that the shipment does not contain any 'suspect' or 'known' Counterfeit Part, Material, or Work* and ensures that parts, material or work are procured only through Original Equipment Manufacturers (OEMs)/Original Component Manufacturers (OCMs) or their Franchised Distributors or Authorized Supplier. Any use of other than an Authorized Supplier* requires M Wave Design written approval prior to procurement and use, which shall be contained within the deliverable data package. The supplier shall verify the procurement source and associated certifying documentation. Supplier's receiving inspection process shall utilize incoming inspection or test methods, or both, to detect potential counterfeit parts, material or work. The supplier shall flow this clause in its entirety or equivalent down to all lower tier subcontracts to prevent the inadvertent use of Counterfeit Parts, Material or Work. When an Authorized Supplier is not utilized by the supplier's lower tier, the supplier shall provide a copy of the risk assessment and their written approval within the deliverable data package.

Rev A dated 7/16/15-Updated DFAR clauses in Q17. Changed title of document from "Product" to "Quality".

Rev B dated 10/31/17-Added Q14A.

Rev C dated 8/15/18-Added clause Q22.