

	Supplier Quality Clauses	
	DFT0000253	Rev: D

IMPORTANT SUPPLIER NOTICE: Supplier Quality Clauses (Quality Assurance Procurement Clauses) Q01 through Q12, Q14, Q16 & Q20 through Q32 are applicable to all purchase orders for production parts and processes. The remainder of the clauses are “As Required” per individual purchase order requirements.

Supplier (also known as Vendor or Manufacturer) refers to the provider of material, process or service as requested by Wavestream or as flowed down by Wavestream’s Supplier. Quality Clauses may be modified without notice to the Supplier. Most recent copy of the Quality Clauses are available at www.wavestream.com. Wavestream’s direct suppliers shall flow down to, and ensure compliance with Supplier Quality Clauses and other requirements by sub-tier suppliers providing items.

The Wavestream point of contact is the Buyer referenced on the P.O. Any questions, problems, or information should always be directed to the Buyer. Do not accept any change to the technical and quality requirements unless authorized in writing by the Buyer.

The contents of this document shall be taken in combination with the Wavestream’s purchase agreement, drawings and associated assembly notes. Where this document and the Wavestream drawings conflict, the Wavestream drawing shall take precedence.

	Initial
<p>Q01. QUALITY MANAGEMENT SYSTEM REQUIREMENTS: The Supplier shall maintain and/or be certified to an effective quality system to ensure product and process integrity that is based on ISO 9001 or AS 9100 (latest revision), including a measuring instrument calibration system in accordance with the latest revision of current standards. This inspection system shall be verifiable by Wavestream Supplier audit.</p>	
	Initial
<p>Q02. INSPECTION SYSTEM REQUIREMENT: The Supplier shall establish and maintain an organized system of material and quality control (see Q01), which will ensure that only articles which conform to all requirements of the purchase order, are delivered to Wavestream.</p>	
	Initial
<p>Q03. MRB AUTHORITY EXCLUSION: Without prior approval of the Wavestream quality department, deviations from the requirements of this purchase order will not be acceptable.</p>	

	Initial
<p>Q04. RIGHT OF ENTRY: The Supplier shall grant Wavestream, its customers and regulatory agencies/authorities, access and the right to audit the facility(s) or remotely witness, where production, maintenance or servicing activities are performed. This access right is applicable to the Supplier's sub-tier suppliers and shall be formally notified of this requirement.</p>	
<p>Q05. CERTIFICATION OF COMPLIANCE: The Supplier shall include with each shipment, a certifying statement, which attests to the Suppliers' compliance with all requirements of the purchase order. The Certification of Compliance shall be signed by a responsible quality representative of the Supplier. The required statement shall constitute certification by the Supplier that the articles are in full compliance with all purchase order requirements and that the Supplier holds available for review, documented evidence of such compliance. Records shall be retained by Supplier for a minimum of Ten (10) years and shall be available to Wavestream for examination at any time during that period.</p> <p>As a minimum the Certified of Compliance shall contain the following information:</p> <ul style="list-style-type: none"> a) Supplier's name b) Wavestream purchase order number c) Wavestream part number and print revision letter d) Suppliers shipping document number e) Quantity of articles f) Serial Numbers, Date Code or Lot Numbers of articles, when applicable g) The Certification of Compliance Statement h) Attachments included but not limited to raw material certs, plating certs, painting certs, shelf life data, etc. 	Initial

	Initial
<p>Q06. RECORDS (DOCUMENTED INFORMATION): Supplier shall maintain documented information of manufacturing and traceability of material used in the fabrication of the parts, sub-assemblies or assemblies produced in fulfillment of this purchase order. The documented information shall be maintained by the Supplier for a period of Ten (10) years after completion of the purchase order and shall be made available for review by authorized Wavestream personnel, upon request.</p>	
<p>Q07. PACKING, PACKAGING AND PRESERVATION: The Supplier shall utilize appropriate packaging and preservation, methods and materials utilizing Best Commercial Practices if not specified by Wavestream to prevent product contamination, deterioration, damage or loss, as to ensure articles are received at Wavestream in an acceptable condition.</p> <p>Electrostatic sensitive components shall be handled in accordance with DOD-STD-1686 "Electrostatic Discharge Control Program" for protection of electrical and electronic parts, assemblies and equipment.</p>	Initial
<p>Q08. NON-CONFORMING MATERIAL CONTROL: The supplier shall have a documented process to deal with the separation and/or distinguishing of nonconforming articles from conforming articles to prevent unintended use or delivery. These should be physical and systematic controls.</p> <p>A documented procedure to ensure only calibrated equipment is used for inspection, measuring and test, to validate or verify requirements established by the design of the article being manufactured. Supplier shall notify Wavestream when an out of tolerance equipment is discovered and the extent & scope of the out of tolerance equipment's impact to Wavestream, if any.</p> <p>Products losing their traceability shall be treated as non-conforming items.</p>	Initial

	Initial
<p>Q09. NONCONFORMING MATERIAL AND CORRECTIVE ACTION: The Supplier is required to notify Wavestream within 24 hours of any product/service nonconformance that has escaped from the Supplier's facility. Supplier shall immediately act to eliminate the nonconformance on all products in Supplier's control. The Supplier is required to provide as much detailed information as possible including a complete description of the defect, part numbers affected, purchase order affected, quantity, method of discovery, any traceability information and any inspection/ test data that may be applicable.</p> <p>When nonconforming product is reported to Wavestream Quality, and evaluated to be the responsibility of the Supplier, a corrective action utilizing a methodology consistent with 8D Corrective Action Request (CAR) shall be issued for all non-conforming products and will require immediate containment of all such product under the Supplier's control, and a Root Cause Corrective Action response to Wavestream. Wavestream reserves the right to withhold acceptance of shipments either at source or destination until Supplier's corrective action is submitted. Continued delay in response to CAR could result in a re-evaluation of the Supplier performance report and possible loss of approval status in Wavestream Approved Supplier List (ASL), also may be referred to as Wavestream Approved Vendor List (AVL).</p>	
<p>Q10. APPROVED SOURCES REQUIRED: Supplier shall contact Wavestream to obtain the name and location of the approved source/manufacturer for the material/parts/components or process required by the drawing, specification or purchase order instructions. Failure to comply with this requirement shall be cause for rejection of the material or parts supplied and disapproval of the responsible Supplier.</p> <p>Each part on Wavestream's bill of material or process listed on the drawing is controlled through its own ASL/AVL. Addition of a new source requires qualification through the First Article.</p>	
<p>Q11. ACCEPTANCE TEST REPORTS: Acceptance test reports shall be provided for each shipment, when applicable. Legible copies of actual test results, identifiable with test parameters and items submitted.</p>	



	Initial
<p>Q12. SERIALIZATION: Per individual Wavestream drawing requirements, items furnished on this purchase order will be identified with a non-recurring serial number. In cases where the size of the item furnished prohibits identification, the serial number will be marked on an identification tag or label and securely attached to each item.</p>	
<p>Q13. FIRST ARTICLE INSPECTION (FAI) AT SUPPLIER'S FACILITY: Per PO requirements, this order maybe subjected to First Article Acceptance at the Supplier's facility on three (3) sample articles prior to delivery and/or acceptance of the balance of the order. Delivery or production of articles, other than the sample, prior to First Article Acceptance by Wavestream, shall be at the sole risk of the Supplier. The sample article submitted shall be representative in all aspects of the furnished drawing, on this or future orders, subsequent to First Article Acceptance. Source Inspection shall be requested 48 hours in advance. Contact Wavestream Quality department at (909) 599-9080.</p>	
<p>Q14. FIRST ARTICLE INSPECTION (FAI) AT WAVESTREAM: Per PO requirement, this order maybe subjected to First Article Inspection acceptance at Wavestream of at least three (3) sample articles prior to delivery and/or acceptance of the balance of the order. Delivery or production of articles, other than the sample, prior to First Article Inspection acceptance by Wavestream, shall be at the sole risk of the Supplier. The sample articles submitted shall be representative in all aspects of the articles to be delivered on the remainder of the order.</p> <p>Any changes post First Article Inspection acceptance are subjected to a Delta First Article Inspection acceptance.</p> <p>The FAI Report/Delta FAI Report shall include all information required per most recent AS9102 Standard. First Article Inspection Report for tooling/fixture may be provided.</p>	



<p>Q15. WAVESTREAM SOURCE INSPECTION: Articles to be produced in fulfillment of this purchase order require buyer source inspection by a Wavestream quality assurance representative PRIOR TO DELIVERY. In order to schedule source inspection, the Supplier shall notify the Wavestream purchasing department at least 48 hours in advance of the article(s) being available for inspection. Source Inspection does not constitute final acceptance by Wavestream, nor does it relieve the Supplier of the responsibility for compliance with all requirements of the purchase order. The Supplier shall provide facilities and assistance as may be reasonably required by Wavestream personnel in the performance of their inspections.</p>	Initial
<p>Q16. LOT IDENTIFICATION/TRACEABILITY: All articles produced on this purchase order shall be identified with the part number, revision and Supplier-date code (VVV-WWYY) (if applicable). Identification shall be by labeled, bag & tag, machined etch, electro etch, ink stamp or as specified on the drawing. Drawing identification requirements supersede Supplier quality clause requirements.</p> <p>In the event on metal parts more than one (1) heat material is used, each heat lot parts shall be identified with a slash or dash no, that is traceable to the heat lot from which it was made. All certifications shall have the purchase order number, and slash or dash number, if appropriate, referenced on the certification.</p> <p>Supplier shall ensure that all parts consumed as part of the final part delivery can be traced to the lot received by the Supplier at its facility. The requirements for traceability shall also be applied to parts that are repaired, modified or reworked by the Supplier.</p> <p>Supplier shall ensure that items procured from Distributors, including Commercial-Off-The-Shelf (COTS) parts, have one-way (backward) traceability for the lot received from the Original Equipment Manufacturer (OEM) by the Supplier.</p>	Initial
<p>Q17. RAW MATERIAL TRACEABILITY: Each shipment shall be accompanied by a material certification, which identifies the producer/manufacturer of the material furnished. Certification shall also include the heat number, heat code, heat lot number or melt number, which shall be traceable to the raw material manufacturer, as well as Wavestream purchase order number per Q19 & Q20.</p>	Initial



	Initial
<p>Q18. RAW MATERIAL CERTIFICATION: Each shipment shall be accompanied with a legible copy of certified test reports of the Chemical & Mechanical Properties of the material. Producer/Mill test data is preferred. Certified test data from an independent laboratory is acceptable.</p> <p>Material certification must agree in all respects with the raw material requirements of their applicable specifications. All certifications shall state the latest revision of the Specification to which it is being certified.</p>	
	Initial
<p>Q19. RAW MATERIAL ORIGIN: Raw materials (sheet, plate, bar, etc.) furnished to Wavestream or raw material produced by the Seller for the production/fabrication of articles for sale to Wavestream shall be of DOMESTIC ORIGIN (U.S.) only.</p>	
	Initial
<p>Q20. WAVESTREAM FURNISHED MATERIAL IDENTIFICATION: Supplier shall maintain the Wavestream established material identification info from receipt of raw material/subassembly thru delivery of finished articles. Finished articles shall be identified with the applicable Lot Number(s), using labels, ink marker, machined etch, electro etch, tag identification or bag and tag identification. Additionally, Supplier shall include on their Certification of Conformance, the raw material/subassembly identification info, from which it were produced (see Q05). Drawing identification requirements supersede Supplier quality clause requirements.</p>	
	Initial
<p>Q21. PROCESS CERTIFICATION: Processes executed on the material furnished in fulfillment of this purchase order, must be accompanied with a legible copy of certification for process performed not limited to Plating, Painting, ENEPIG, ENIG, Conformal Coating, PCB cross-sectioning, Solder ability test, Wire Bond ability test, etc.</p>	
	Initial
<p>Q22. IDENTIFICATION OF SHELF LIFE MATERIALS: The Supplier shall identify each item, package or container of Shelf Life material with expiration date and special storage and handling, in addition to the normal identification requirements, such as name, part or code number, specifications number, type, size and quantity. This identification, including special handling conditions, shall be recorded on the certification and shipping documents for the material.</p> <p>Material provided at a minimum shall have a shelf life <50% remaining at the time of delivery.</p>	



	Initial
<p>Q23. IDENTIFICATION OF SHELF LIFE MATERIALS INSTALLED IN ASSEMBLY: The CoC furnished with each shipment of an assembly incorporating a Shelf Life Material that does not require age control after installation (e.g., adhesives, resins, plastic-based paints, etc.), shall certify that the Shelf Life Material was properly controlled prior to use and within the Shelf Life period when incorporated.</p>	
<p>Q24. PCN (Process/Product Change Notification): Every change initiated by Supplier (e.g., changes involving materials, process procedures, finished product design or services including changes of their external providers or location of manufacture) that impacts Fit, Form, Function or may impact reliability will be subject to Wavestream's prior written approval and notified to Wavestream in writing: (a) for major changes at least 90 days in advance, and (b) for minor changes at least 60 days in advance, and any such change will be subject to Wavestream's prior written approval.</p>	
<p>Q25. GOVERNMENT SOURCE INSPECTION: If Government Inspection is required prior to shipment from your plant. Upon receipt of this order, promptly notify the government representative who normally services your plant so that appropriate planning for Government Inspection can be accomplished. Supplier shall provide evidence of Government Source Inspection with shipment. Upon receipt of this order, promptly furnish a copy to the government representative, who normally services your plant or if none, to the nearest Army, Navy, Air Force or Defense Supply Agency Inspection Office. In the event the representative or office cannot be located, Wavestream purchasing department shall be notified immediately.</p>	
<p>Q26. GOVERNMENT SOURCE SURVEILLIANCE: During performance of this order, Supplier's quality control or inspection system and manufacturing processes are subject to review, verification, and inspection by authorized Government Representatives.</p>	



	Initial
<p>Q27. INSPECTION REQUIREMENT. Wavestream inspects all products purchased (Buy-by-Spec or OTS) when necessary using 10x and up. PCB/PCBAs are inspected at 40x magnification and up, beyond IPC requirement.</p> <p>Suppliers shall ensure all products requiring testing/measurement shall be tested/measured by calibrated equipment. Supplier shall ensure calibration of their test/measurement equipment shall be verified prior to the start of measurement/test activities. Calibration of such equipment shall be traceable to NIST Standards or equivalent. Calibration records shall be made available for examination on request.</p>	
	Initial
<p>Q28. AWARENESS. The Supplier shall ensure that Supplier’s employees are aware of their contribution to product or service conformity, their contribution to product safety and the importance of ethical behavior.</p>	
	Initial
<p>Q29. Conflict Mineral Notice. Wavestream requires its suppliers & sub-tier suppliers to undertake reasonable due diligence with their suppliers to identify whether any of the products supplied to Wavestream contain 3TGs sourced from the DRC and, if so, whether the mines and smelters identified are certified as "conflict free" by an independent third party. Supplier shall notify, immediately if there is a modification to the supply chain constituents, smelters, or refiners that affect the Product’s conflict mineral declaration status through the updated CMRT.</p>	
	Initial
<p>Q30. Safety Data Sheets (SDS): Safety data Sheets (formerly known as Material Safety Data Sheets, MSDS) shall be delivered to Wavestream with or prior to acceptance of shipment of any chemical product.</p>	
	Initial
<p>Q31 Prevention of Counterfeit Parts: Supplier of EEE and/or non-EEE parts shall plan, implement, and control processes consistent with the prevention of counterfeit or suspect counterfeit part(s) use and their inclusion in the product(s) delivered to Wavestream or its customers.</p> <p>Supplier of electrical, electronic and electromechanical (EEE) parts shall plan, implement, and control processes to prevent and mitigate the use of counterfeit parts, supplier and all members of their supply chain, including Distributors in accordance with AS5553 and AS6081.</p> <p>Supplier shall notify Wavestream with the pertinent facts if Supplier becomes aware or suspects that it has furnished suspected counterfeit/counterfeit parts.</p>	

	Initial
<p>Q32 Foreign Object Damage (FOD) Prevention: Supplier shall establish and maintain an effective Foreign Object Damage (FOD) Prevention Program to reduce FOD using NAS 412 as a guideline. The supplier’s program shall utilize effective FOD prevention practices. 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.</p> <p>The written procedures or policies developed by the supplier shall be subject to review and audit by the Wavestream, its customers and/or regulatory agencies/authorities, and disapproval when the supplier’s procedures or policies do not accomplish their objectives.</p>	

COMMENTS:

These Supplier Quality Clauses apply to all Suppliers and sub-tier Suppliers of products, assemblies, parts, components, raw materials and production services to Wavestream.

Our Suppliers shall ensure that all Wavestream requirements specified herein are assessed, fulfilled, and flowed down both internally within their organization and to sub-tier suppliers where applicable. A process should be implemented by which sub-tier suppliers performance can be evaluated.

The acknowledgement of this record indicates the requirements were read and understood. Supplier Quality Clauses are to be applied as applicable to the product/part/material being supplied. Wavestream reserves the rights to modify and implement the Supplier Quality Clauses without prior notice. Use of electronic/digital signatures in lieu of hand written/wet ink signatures are acceptable.

Note: In addition to Supplier Quality Clauses, Form-0038 is used to evaluate and communicate Wavestream’s requirements for supplier’s & sub-tier supplier’s Quality Management System.

Company: _____ Date _____

Name: _____ Title _____

Signature: _____