

SCOPE

This document delineates the specific supplier quality requirements that apply when one or more of the following Quality clauses are specified by alpha numeric code on Pacific Scientific OEEO Subcontract/Purchase Orders. These requirements are supplemental to those set forth in any other contracted document. The provisions indicated herein are an integral part of the applicable Purchase Order. Please note the underscore following any Q code indicates that only one of the lettered items in the description applies and it shall be called out on the purchase order.

The inclusion of a product on a Government Qualified Products List, Approved Vendor List or the requirements of these clauses does not relieve the Seller of his responsibility for furnishing materials/services that meet all specification requirements or for performing specified inspection and tests for such materials/services. In the event that materials and/or services are found to be non-conforming, Pacific Scientific OEEO and its customers shall have the right to reject them.

REQUIREMENTS

S/S = Superseded

S/S EKD QAP code	S/S FW Bell code	S/S OEEO code	New code	Description
1A	Q-1	Q5	1A	Quality Management System requirements During the execution of this order, the vendor shall be registered to the requirements according to the following letter designation: A) During the execution of this order, the vendor shall be certified and/or registered to ISO 9000:2008 and/or AS9100:2001. In the event that the supplier loses certification, the supplier must notify Pacific Scientific OEEO.
1B		Q2 &/or Q3	1B	Quality Control System requirements During the execution of this order, the vendor shall be compliant to the requirements according to the following letter designation: B) During the execution of this order, the vendor shall establish and maintain a Quality Control System that satisfies the essential requirements of MIL-I-45208A, Inspection System Requirements, and will include a system for raw material control and traceability , storage and identification
1C	Q-2	Q30	1C	Quality Control System requirements During the execution of this order, the vendor shall be certified to the requirements according to the following letter designation: C) During the execution of this order, the vendor shall establish and maintain a Quality Control System that satisfies the essential requirements of ISO 10012, Quality Assurance Requirements for Measuring Equipment
1D			1D	Quality Control System requirements During the execution of this order, the vendor shall be compliant to the requirements according to the following letter designation: D) No formal system required. Catalog and QPL purchases only
		Q6	1E	Quality Control System requirements During the execution of this order, the vendor shall be compliant to the requirements according to the following letter designation: E) The supplier shall maintain a quality control system which will provide required control of the quality of items deliverable under this purchase order, and which meets the requirements of Pacific Scientific OEEO document number 091-00010-01.

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	Q-21	Q25 &/or Q26	2	<p>Packaging Requirements Unless otherwise specified on the purchase order, material shall be packaged in accordance with ASTM-(D3931) Standard Practices for Commercial Packaging. Each shipping container shall be identified with, or include a packing slip that includes:</p> <ol style="list-style-type: none"> 1) Purchase Order Number. 2) Part Number. 3) Quantity. 4) Serial Number (when applicable). 5) Lot Number (when applicable). 6) Cure Date (when applicable). 7) Static Sensitive Warning (when applicable). 8) Orders having a government contract number shall meet applicable military packaging requirements.
	Q-26	Q4	3	<p>Calibration System Requirement The supplier shall establish and maintain a system of adequate calibration of inspection and test equipment in accordance with ISO-10012-1 or ANSI Z540. Records of calibration shall be made available to Pacific Scientific OECO upon request.</p>
		Q37	4	<p>DFARS 252.225-7014 Alt 1 Applies Any specialty metal (as defined in paragraph (a) of the clause) included in any articles delivered under this purchase order must comply with this clause and you must flow down this clause to all of your vendors supplying any articles delivered under this purchase order that include specialty metals.</p>
		Q23	5	<p>Workmanship The materials and workmanship shall conform to the latest revision of MIL-HBBK-454A or ANSI J-STD-001 and IPC-610 class 3. Workmanship requirements not normally covered in MIL-STD-454 or ANSI J-STD-001 and IPC-610 shall conform to workmanship standards supplied by Pacific Scientific OECO, or equivalent. Supplier proposed workmanship standards must first be approved by Pacific Scientific OECO.</p>
7	Q-29		6	<p>Nonconforming Material and MRB Authority Nonconforming products are not acceptable unless agreed and accepted prior to delivery by authorized material review board (MRB) activity. The supplier shall have no discretionary power to depart from the purchase order requirements. Exceptions to purchase order drawings or specifications taken on quotations must be accepted by an approved Pacific Scientific OECO drawing or specification change or authorized by the Pacific Scientific-MRB which in most cases includes Pacific Scientific's customer. When MRB authority is not specifically delegated to the seller, the seller shall request a copy of the Pacific Scientific OECO Supplier Material Action Request (SMAR form) for completion by the seller and include the following: 1) Nature of the discrepancy; 2) Cause; and 3) Corrective Action with objective evidence to prevent re-occurrence. The completed SMAR shall be forwarded to Pacific Scientific OECO MRB for disposition and approval prior to the shipment of articles to Pacific Scientific OECO. If the SMAR nonconformance is due to the sellers fault the buyer reserves the right to charge a SMAR processing fee.</p>
12	Q-16 &/or Q-17	Q7	7	<p>Government Source Inspection Government source inspection is required prior to shipment from your facility. Upon receipt of this order, promptly notify the Government Representative who normally services your facility so that appropriate planning for Government Source Inspection can be accomplished. In the event the representative or office cannot be located, the Pacific Scientific OECO Buyer should be immediately notified. No items are to be shipped without government inspection approvals. Evidence of such approval shall be indicated on the shipping documents.</p>

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9	Q-15	Q10 &/or Q36	8	<p>First Article Inspection Inspection and acceptance by seller of a first article manufactured against this purchase order is a requirement if one of the following conditions apply: First time producer of this item, 2 years since last acceptable first article, blueprint revision since last acceptable first article, or previous first article was rejected. Supplier shall perform First Article inspection in accordance with AS9102. The full requirements of AS9102 apply including initial FAI, as well as additional FAI submissions as stated in Paragraph 5.3. FAI reports shall be documented using the forms contained in AS9102. The first article report shall as a minimum include the part number, purchase order number, and shipper document number. All applicable drawings or specification physical and functional characteristics shall be noted with tolerance and actual measurement which demonstrates compliance with all specification requirements. A tagged first article and report shall be submitted to Pacific Scientific OECO Quality Assurance for inspection and approval. First article inspection documentation shall be retained by the supplier in accordance with the record retention requirements of this purchase order.</p>
17			9	<p>JAN-branded electronic components During performance on this order your control of lot traceability documentation and your inventory control for JAN-branded electronic components are subject to review, validation, and verification by an authorized government representative. Government release of shipment is not required unless you are otherwise notified.</p>
	Q-7		10	<p>Radiographic Inspection A radiographic inspection of the components listed on the purchase order is required. A certified report and radiographic film of the components must accompany the shipment.</p>
	Q-8		11	<p>Acceptance Tests The components listed on the purchase order are subject to acceptance tests conducted by Pacific Scientific OECO on an AQL sample basis. The acceptance test shall be conducted in accordance with the specifications listed on the purchase order. The acceptance test may include but is not limited to one or more of the following: solderability, destructive physical analysis, radiographic inspection, electrical test measurements, and hermetic seal testing. Pacific Scientific OECO agrees to pay the supplier only for those components subjected to tests listed as destructive in MIL-M-38510 or MIL-S-19500. Lots which fail the acceptance test shall be returned to the supplier for replacement at the supplier's expense.</p>
11 &/or 13	Q-18	Q8 &/or Q9	12	<p>Pacific Scientific OECO Source Inspection The supplies on this order are subject to Pacific Scientific OECO Source Inspection. When material is ready for inspection, notify Pacific Scientific OECO forty-eight (48) hours in advance. Pacific Scientific OECO Source Inspection does not relieve the supplier of any of the requirements of this purchase order nor the responsibility of rework or replacement of material found to be defective during normal acceptance procedures upon receipt at Pacific Scientific OECO. The supplier's gages, measuring and testing devices shall be made available at the supplier's facility for use by the Pacific Scientific OECO Source Inspector when required to determine conformance to contract requirements. If conditions warrant, supplier's personnel shall be made available for operation of such devices and for verification of their accuracy and condition.</p>
16			13	<p>Government Inspection During performance on this order, your quality control or inspection system and manufacturing processes are subject to review, verification, and analysis by authorized government representatives, including government sampling of lot traceability documentation when required. Government release of shipment is not required unless otherwise notified.</p>

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3	Q-28	Q18	14	<p>Chemical/Physical Test Reports All material delivered under this purchase order shall be accompanied by chemical and/or metallurgical test reports which substantiate conformance of the material to the specification requirements. Certifications shall accompany each shipment of material to Pacific Scientific OECO and be identified as to Pacific Scientific OECO purchase order number, part number and revision, specification number and revision, serial numbers (if applicable) and quantity represented. An incomplete or inadequate statement of conformance or certification is cause for rejection. The supplier shall also maintain on file for a period of ten (10) years, a copy of this test report.</p>
4	Q-12	Q20	15	<p>Limited Shelf Life Materials The supplier shall identify all materials and articles which have definite characteristics of quality degradation with age and/or environment. The supplier shall supply this information on the container or accompanying documentation. This identification shall indicate the date useful life was initiated and the date and/or cycle at which the useful life will be expended. When environment is a factor in determining useful life, the identification shall include the storage conditions (i.e., temperature, humidity, etc.) required to achieve the stated life. A minimum of 70% (or as specified on the PO) of the applicable material/article shelf life shall remain upon receipt of the material by Pacific Scientific OECO or the material is subject to rejection and return to the supplier. The shelf life start date shall be the date of shipment (DOS) from the manufacturer or as otherwise specified by the manufacturer.</p>
6	Q-6	Q1 &/or Q38	16	<p>Certificate of Conformance (C of C) The supplier shall provide written certification that the article(s) delivered under this purchase order have been inspected and are in compliance with all requirements, applicable drawings, specifications, terms and conditions of the purchase order. The certificate shall contain: 1) Pacific Scientific OECO part number and revision. a. Plus Pacific Scientific OECO Final assembly part number when required by customer. 2) Pacific Scientific OECO purchase order number. 3) Indication of applicable specification(s), when noted on the purchase order. Seller shall assure the latest revision of applicable drawings and specifications are followed, unless otherwise agreed upon and documented. In addition, the supplier must state in the certificate that objective evidence sufficient to substantiate the Certificate of Conformance is on file and is available for Pacific Scientific OECO review. The Certificate of Conformance must be signed by a duly authorized representative of the supplier's quality function. One (1) reproducible copy of the Certificate of Conformance shall be supplied to Pacific Scientific OECO concurrent with each delivery of article(s). Certificate of Conformance from distributors shall comply with all of the above requirements, and shall include the name of the original manufacturer.</p>
3D			17	<p>C of C The vendor shall furnish a statement that parts were manufactured using specified material, certifications on file, available on request. Gray Market and counterfeit parts are expressly prohibited.</p>
8			18	<p>Corrective Action Report Requirement The seller shall furnish buyer upon solicitation, corrective action reports on the buyer's form EK-1000 on all discrepancies which occur during Receiving Inspection acceptance at the buyer's facilities. Reports shall as a minimum include cause of discrepancy, correction taken to remove discrepancy, and action taken to prevent recurrence on all future shipments. Such reports shall be submitted to Pacific Scientific OECO Quality Assurance within two weeks of supplier's receipt of request for corrective action.</p>
3B			19	<p>Raw Material Certifications (Certs) The vendor shall furnish original manufacturer raw material certifications to applicable specifications and revisions, including chemical analysis and actual values recorded. Independent laboratory reports are acceptable.</p>
3C			20	<p>Original Manufacturer Certifications (Certs) The vendor shall furnish original manufacturer material certifications to applicable specifications and revisions.</p>

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		Q16	21	Records and/or Reports Inspection system provisions require the supplier to prepare, utilize and maintain inspection and test records. The supplier shall submit a copy of all inspection records completed in performing final inspection of the units shipped.
	Q-4	Q14 &/or Q17	22	Inspection test data One or more of the following sets of test data must be furnished with the components, as defined on the purchase order: A) Attributes or variables inspection or test data demonstrating conformance to requirements listed on the purchase order. B) Variable test measurement data (actual readings) for static tests performed in accordance with the specification or drawing listed on the purchase order. C) Variable test measurement data (actual readings) for dynamic tests performed in accordance with the specification or drawing listed on the purchase order. D) Attributes test measurement data for functional tests performed in accordance with the specification or drawing listed on the purchase order. E) Variable test measurement data (actual readings) for switching time tests performed in accordance with the specification or drawing listed on the purchase order. F) Pre and post burn-in attributes data per the drawing or specification listed on the purchase order. The percent defective allowable shall be less than 5% unless otherwise stated on the purchase order.
	Q-9		23	Data Each deliverable device or lot shall be supplied with one or more of the following as specified on the purchase order: A) Attributes test data for all screening tests. B) Variable data for all pre and post burn-in and operating life tests. C) Final electrical parameter test data. D) Data specified in drawings listed on the purchase order. E) Objective evidence of current acceptable Group B, C, and D testing.
2			24	Heat Treat Report Each shipment shall be accompanied by a reproducible copy of the detail parameters used in the heat treat cycle, with specification and revision letter.
		Q34	25	Prohibition of Pure Tin The uses of pure Tin Plated finishes are strictly PROHIBITED! Any Tin Plating or Solder processes shall contain no less than 3 percent Lead composition, unless specifically authorized in writing by the Procuring Agency. These restrictions apply for all types and levels of procurements, with the Seller responsible for communicating these restrictions to subcontractors or sub-tier suppliers as required.
3A	Q-27	Q27	26	Special Process Certification Special processes are defined as chemical, metallurgical, and other types of processes for which the quality and integrity of the product cannot be adequately demonstrated by other than destructive test. Included in the category of special processes are nondestructive methods of evaluating the product other than normal mechanical dimensional inspection. Special process certification defined by this clause shall be accomplished prior to use in the production of items to be delivered under this purchase order. The supplier shall be responsible for required certification of special processes, personnel, and equipment notwithstanding any statement contained in the process specifications which indicates that Pacific Scientific OEEO is responsible for such certification. Conformance of deliverable items to all requirements of this order shall remain the responsibility of the supplier. Objective evidence of certification, qualification, and control shall be available at the supplier's facility and shall be furnished to Pacific Scientific OEEO upon request.
14		Q33	27	Approved Process Sources Seller and subcontractors shall use Approved Process Sources as provided by the Pacific Scientific OEEO buyer.

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		Q11	28	<p>Traceability Documentation</p> <p>Traceability of JAN marked devices shall be certified to MIL-S-19500 or MIL-M-38510 to Pacific Scientific OECO by the supplier, whether the supplier is the manufacturer or a distributor. When the supplier is a distributor, their certification shall be in addition to and include the certification provided by the manufacturer and by any previous distributor to the supplier. The certification shall include the following information.</p> <ol style="list-style-type: none"> 1) Manufacturer certification. <ol style="list-style-type: none"> a) Manufacturer's name and address. b) Customer's (Pacific Scientific OECO's) or distributor's name and address. c) Device type, detail specification, detail specification Rev. letter, and/or amendment number, and product assurance level (JAN, JANTX, JANTXV, JANS, and JANC). d) Lot date code (including a code identifying the assembly plant). e) Inspection date or latest re-inspection date. f) Quantity of devices in shipment from manufacturer. g) Statement certifying conformance and traceability. h) Certifying signature and date of transaction. 2) Distributor's certification <ol style="list-style-type: none"> a) Copy of manufacturer's certification b) Distributor's name and address. c) Name and address of customer (Pacific Scientific OECO). d) Latest re-inspection date, if applicable. e) Certification that this shipment is a part of the shipment covered by the manufacturer's certification. f) Certifying signature and date of transaction. During the performance of this order, control of device lot traceability documentation and inventory control for MIL-S-19500F JAN branded devices are subject to review, validation and verification by an Authorized Government Representative, Government release of shipment is not required unless you are otherwise notified. g) Statement certifying conformance and traceability.
		Q22	29	<p>Serialization</p> <p>The supplier is required to identify each individual unit/item of material delivered to Pacific Scientific OECO with a unique identifying number (serial number). This number shall be sequential and shall not be repeated within a part number grouping. When the serial numbers are provided on the Purchase Order, only those numbers are to be used.</p>
		Q24	30	<p>Piece Marking — Manufactured Parts</p> <p>Manufactured parts shall be permanently and legibly marked per MIL-STD-130 with the appropriate manufacturer's name or symbol, part number and any other marking information called out on the attached drawings. For small parts, to be supplied separately, where space is insufficient to mark, per the above, bagging or tagging will be accepted.</p>
5	Q-10 &/or Q-11	Q13	31	<p>Compliance to ASQR-01</p> <p>The seller must comply with ASQR-01 latest revision. The seller is responsible for compliance with all specifications referenced on the purchase order and/or drawings and shall maintain, subject to Pacific Scientific OECO Quality Assurance review, adequate quality control records to indicate objective evidence of his compliance as well as traceability through lot identification and inspection/test records. Records providing evidence that product meets the requirements must be maintained a minimum of ten (10) years or as specified in ASQR-01. Furthermore, the seller is responsible for specification compliance by all of his subcontractors and must contractually require that such subcontractors maintain evidence of their compliance for a period of ten (10) years or as specified in ASQR-01.</p>
	Q-13		32	<p>Lot Date Codes</p> <p>Date codes of items supplied on this purchase order shall be in compliance with the following:</p> <ol style="list-style-type: none"> 1) Date codes shall be two (2) years or newer. 2) Date codes shall be eighteen (18) months or newer. 3) Date codes shall be twelve (12) months or newer.

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	Q-5 &/or Q-22	Q15	33	Drawing/Specification Compliance Specifications listed on the purchase order shall be the latest revision level in effect on the date of the purchase order, unless otherwise specified by the purchase order. Supplier is responsible to ensure they are working to the latest specification listed on the purchase order. Any changes that may affect quality (form, fit, function and/or deviations from specifications) must receive authorization from Pacific Scientific OECO prior to shipping parts.
		Q28	34	Special Process Control Changes in the controlled status of special processes or certified operators, such as relocation of facility, changes in method, and changes in personnel, shall be submitted to Pacific Scientific OECO for approval prior to implementation. The supplier shall maintain records of certified processes and personnel which reflect the current status and the results of tests or examinations of such processes and personnel. The supplier shall make such records available to Pacific Scientific OECO upon request. The suppliers shall include the provisions of this clause in any order placed with suppliers at any tier for material or services required under this order.
15	Q-3	Q29	35	Electronic Components Electronic Components or devices will be subject to rejection (and prioritized replacement by the supplier) if deficient in any of the following respects: inadequate marking; date code or retest date older than 36 months; lead solderability substandard; physical damage/deformation; inadequate protective packaging; mechanical/electrical non-conformity; and if JAN-branded, for noncompliance with certification/traceability requirements of MIL-S-19500 or MIL-M-38510 (Ref: DLAM 8200.2); ESD Packaging not in accordance with the requirements of MIL-STD-1686 or JEDEC publication No. 108 (latest revision).
	Q-19		36	Right of entry The supplier shall allow Pacific Scientific OECO, customers and regulatory agencies right of entry to any place necessary in your facility or your subcontractor's facility to determine and verify the quality of contracted work, records and materials.
		Q21	37	Buyer Furnished Material — Certification Specific material, furnished by Pacific Scientific OECO, shall be utilized in the production of items required by this purchase order. Additional quantities of such material, if required, shall be obtained only from Pacific Scientific OECO. No such material other than that furnished by Pacific Scientific OECO shall be used.
		Q39	38	ITAR This document, which includes any attachments and exhibits hereto, may contain information subject to International Traffic in Arms Regulation (ITAR) or Export Administration (EAR) of 1979, which may not be exported, released, or disclosed to foreign nationals, inside or outside the United States, without first obtaining an export license.
			39	FOD Compliance The supplier shall ensure that Foreign Object Debris and Foreign Object Damage (FOD) are eliminated from all part surfaces, cavities, and channels both accessible and inaccessible, prior to shipment. Debris includes but is not limited to material processing remnants, dirt, corrosion, chemical residue, and loose items not inherent to the design. National Aerospace Standard NAS 412 shall be used as a baseline FOD prevention resource.

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20= 40I 18= 40D 19= 40G	Q-20 Q-23 Q-14 Q-25	Q32 = 40H	40_	<p>Special Provisions: Any special provisions will be listed on the Purchase Order. The letter designation indicates the applicable details:</p> <p>A) Circuit Card Assemblies shall be manufactured to J-STD-001 Class 3 requirements. B) Supplier is responsible for compliance with the Fastener Quality Act. C) Supplier is required to perform solderability tests in accordance with the applicable specification. The solderability samples must be segregated from the remainder of the lot and clearly identified. D) Supplier certifies that all product manufactured in accordance with this purchase order was processed in a mercury-free environment. E) Items supplied on this purchase order shall have a single lot date code. F) Items supplied on this purchase order must come from a single wafer diffusion lot. G) Item must be procured from a QPL/QML source identified on the QPL/QML list for the referenced specification. H) Approved Boeing inspection sampling plan is required. I) Other provisions apply as specified on the PO</p>
		Q41	41	<p>Circuit Card Assembly (CCA)/Printed-Wiring Assembly (PWA) Engineering review. 1st article CCA\PWA shall be routed and reviewed by Manufacturing and Quality Engineering to customer Specification Control Drawing (SCD) or other required standards. Signature approval by Manufacturing and Quality Engineer required before releasing the assembly from Receiving Inspection.</p>
	Q-24		42	<p>Overhead - Not Deliverable Items supplied on this purchase order are for overhead, services, maintenance, construction, and other use not charged to direct customer contracts. The material will be evaluated by the user and deemed acceptable for use if it meets the requirements for intended use. This material is not intended for delivery to Pacific Scientific OECO customers.</p>
			43_	<p>Customer Flow Down Any special customer quality requirements will be listed on the Purchase Order. The letter designation indicates the applicable details.</p> <p>A) Boeing. The Boeing Quality Management System Requirements for Suppliers are in document number D6-82479. These requirements are mandatory for this PO. B) Rockwell Collins. The Rockwell Collins Supplier Quality Requirements are in document number RC-9000. These requirements are mandatory for this PO.</p>

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		Q40	44	<p>Counterfeit Electronic Parts Prevention.</p> <p>1) Components procured from OEM or franchised distributor (preferred). Provide or maintain a manufacturer's C of C that matches the date and lot code of the parts.</p> <p>2) Components procured from a non-franchised distributor (broker).</p> <p>a) Provide a manufacturer's C of C that matches the date and lot code of the parts. Provide a broker's C of C stating that the parts have not been refurbished or reworked.</p> <p>b) When a manufacturer's C of C is not available, additional tests and inspections are required.</p> <p>i) Integrated Circuits:</p> <ul style="list-style-type: none"> • Verify physical attributes and marking of the package meet the OEM device data sheet. • De-lid a minimum of one sample from each lot or date code. • Confirm and document that the device die is a product of the OEM. • Contact the OEM to obtain verification that the die and case/ package markings, as well as date / lot codes are valid. If verified, the lot is acceptable without further testing. • If the OEM date and lot codes are NOT valid or OEM verified they did not manufacture the part, the lot must be rejected. • If OEM verification cannot be obtained, Lot Acceptance Testing, as described below, must be performed. • Perform Lot Acceptance Testing as specified on the device data sheet. Sample Size- If no sample size is specified on the OEM data sheet, the sample size shall be 116. If the lot contains less than 116 devices, the sample size is 100%. If any sample fails a test, the failed test shall be performed on 100% of the lot. If the test results in a percent defective greater than 5%, the results shall be submitted to the Pacific Scientific OECO buyer for lot disposition. <p>ii) Components that are not integrated circuits.</p> <ul style="list-style-type: none"> • Verify physical attributes and marking of the package meet the OEM device data sheet. • Contact the OEM to obtain verification that the die (if applicable) and case/ package markings, as well as date / lot codes are valid. If verified, the lot is acceptable without further testing. • If the OEM date and lot codes are NOT valid or OEM verified they did not manufacture the part, the lot must be rejected. • If OEM verification cannot be obtained, Lot Acceptance Testing, as described below, must be performed. • Perform Lot Acceptance Testing as specified on the device data sheet. Sample Size- If no sample size is specified on the OEM data sheet, the sample size shall be 116. If the lot contains less than 116 devices, the sample size is 100%. If any sample fails a test, the failed test shall be performed on 100% of the lot. If the test results in a percent defective greater than 5%, the results shall be submitted to the Pacific Scientific OECO buyer for lot disposition.