

## **PROCUREMENT QUALITY ASSURANCE REQUIREMENTS (PQARs)**

**Standard Requirements:** Unless otherwise specified on the Purchase Order, the following standard PQARs shall apply to all Purchase Orders issued by Meggitt: **R1, R2, R12, R18A, R21, R26, R30, R34, R35, R36, R37, R38, and R39.**

Any additional PQARs that apply will be listed by number on the Purchase Order. When the supplier uses sub-tier suppliers, the supplier shall flow the identified requirements down to those sub-tier suppliers.

- R - 1 INSPECTION SYSTEM REQUIREMENT:** The supplier shall maintain an inspection system that conforms to MIL-I-45208 (or equivalent).
- R - 2 RAW MATERIAL CERTIFICATION:** Each shipment shall be accompanied by a LEGIBLE material certification. The certification shall state the material specification and revision letter of the material (if applicable). Included in the certification will be the statement, "WE CERTIFY THE LISTED MATERIAL WAS USED TO FULFILL THE REQUIREMENTS OF P.O. \_\_\_\_\_ AND THAT THE DOCUMENTED EVIDENCE IS ON FILE AND AVAILABLE FOR REVIEW UPON REQUEST." For COTs (Commercial Off the shelf / catalogue) items, raw material certification does not apply.
- R - 2A** Unless otherwise specified, raw materials not furnished or purchased from domestic (US) mill shall have material tested at a Pacific Scientific Company (PSCo) approved metallurgical test laboratory to prove that the materials used to produce parts for PSCo are equivalent or exceed PSCo drawing material call out. The material test report shall list chemical and mechanical test results. These results are formally requested by PSCo to be in a format that compares the actual laboratory results with the requirements of the material specification shown on print.
- R - 2B** Unless otherwise specified, sub-assemblies or final assemblies parts purchased outside of US shall have design validation conducted by Engineering and/or Quality department to ensure that the purchased item is capable of meeting the requirements for the specified application or intended use.
- R - 3 RAW MATERIAL ORIGIN:** Raw materials furnished to Pacific Scientific, or raw materials procured by the Seller for the production/manufacture of articles for sale to Pacific Scientific shall be of DOMESTIC ORIGIN only.
- R - 4 CHEMICAL TEST REPORTS:** Materials furnished in fulfillment of this Purchase Order must be accompanied by a LEGIBLE copy of certified test reports of the chemical properties of the material.
- R - 5 PHYSICAL TEST REPORTS:** Materials furnished in fulfillment of this Purchase Order must be accompanied by a LEGIBLE copy of certified test reports of the physical properties of the material.
- R - 6 MATERIAL TRACEABILITY:** a LEGIBLE copy of the material certification/test report, which identifies the producer/manufacture of the material furnished, shall accompany each shipment. Certification shall include the heat number, heat code, heat lot number, or melt code, which shall be traceable to the raw material manufacturer.
- R - 7 LOT NUMBER IDENTIFICATION/BUYER FURNISHED MATERIAL:** Seller shall maintain the lot number established by the buyer from receipt of raw material through delivery of finished articles. Finished articles shall be identified with the applicable Lot Number(s) and segregated throughout the manufacturing process and upon shipment to Pacific Scientific Company. Seller shall include on their Certification of Conformance, the raw material Lot Number(s) from which the articles were produced
- R - 8 LOT IDENTIFICATION/SELLER FURNISHED MATERIAL:** All articles produced on this Purchase Order shall be identified with the Purchase Order number. In the event more than one lot of material is used, each

lot of parts shall be identified and segregated throughout the manufacturing process and upon shipment to Pacific Scientific Company so that they are traceable to the lot from which it was made. ALL certifications shall have the Purchase Order number referenced on the certification.

- R - 9 FUNCTIONAL TEST REPORTS:** a LEGIBLE copy of actual test results, identifiable with test parameters and items submitted shall accompany each shipment.
- R - 10 SPECIAL PROCESS CERTIFICATION:** a LEGIBLE copy of a certification for special processes shall accompany each shipment. Special processes include, but are not limited to, welding, heat treating, radiographic inspection, magnetic particle inspection, penetrant inspection, ultrasonic inspection, brazing, soldering, and plating. The certification shall list the applicable specifications, including revision letter/number to which the process conforms, the type or class, the date, the applicable purchase order number, part number, and quantity.
- R - 11 APPROVED SOURCES REQUIRED:** This order requires the use of Pacific Scientific Company approved sources or NADCAP approved sources for special processes. In the event that a customer approved processing source is required, Pacific Scientific Company's customer's name will be stipulated on the purchase order.
- R - 11A QCS 001 Approved Suppliers:** [www.lockheedmartin.com/aeronautics/materialmanagement/](http://www.lockheedmartin.com/aeronautics/materialmanagement/)
- R - 12 M.R.B. AUTHORITY EXCLUSION:** NO deviations from the Purchase Order, drawing, or related specifications will be accepted.
- R - 13 IDENTIFICATION OF SHELF-LIFE MATERIALS:** The Supplier shall identify each item, package, or container of shelf-life material with measure date, expiration date, lot/batch number, in addition to the normal identification requirements. This information, including any special handling conditions, shall be recorded on the certifications and shipping documents for the material.
- R - 14 SOURCE INSPECTION REQUIRED:** Pacific Scientific source inspection is required on all material after your final inspection and prior to packaging or shipping. Requests for source inspection shall be placed with the Quality Engineer 48 hours prior to the required time.
- R - 16 TRACEABILITY:** Seller shall reference on the shipping document, the manufacturer's date code, lot number and Federal Supply Code for each component shipped.
- R - 17 GOVERNMENT INSPECTION:** Government inspection is required prior to shipment from your plant.
- R - 18 RELEGATED GOVERNMENT/CUSTOMER INSPECTION:** During performance on this subcontract, your manufacturing and associated processes, products and inspection and/or test data are subject to review by authorized Government/Customer Representatives.
- R - 18A** Right of access by Pacific Scientific, their customer, and regulatory authorities to all facilities involved in the order and all applicable quality records.
- R - 19 S.P.C.:** Statistical Process Control is required on this Purchase Order for the control of manufacturing, process, and fabrication of hardware.
- R - 20 E.S.D.:** Electrostatic Discharge protection is required on this purchase order. ESD protection is per MIL Handbook 263A. ESD packaging for delivery is per DOD-STD-1686, Sect. 5.11.

- R - 21** The Seller shall furnish a full First Article Report (FAIR) in accordance with AS9102 using an AS9102 form, with the first shipment of each item and under the following conditions:
- It is the first time the seller has made / supplied the item (new supplier or old supplier with new part number)
  - There has been a production gap of greater than two years or more since the last FAIR was submitted.
  - A seller makes a change in the seller's or major sub-tier support infrastructure i.e relocation, work transfer, etc.

A Delta FAIR in accordance with AS9102 using an AS9102 form, with the first shipment of each item and under the following conditions:-

- A Drawing Revision (for the change only).
- A seller makes a process change from the original FAIR

Note: Actual impacted dimensions must be provided and impacted note attributes must be verified. A delta FAIR can only be performed if there is a previously existing full FAIR. SOTs items do not require a FAIR.


- R - 22 CLEANLINESS:** If applicable, all articles produced on this Purchase Order shall be cleaned to ensure that article is free of all oils, contaminants and all other foreign materials, in accordance with ASTM A380, Section 6.0. The use of cleaner containing chloride or sulfur compounds is prohibited. Inspection should be in accordance with ASTM A380, Section 7, or equivalent. ASTM A380 applies for Stainless Steel Parts, Equipment, and Systems.
- R - 23 SOLDERABILITY:** Solderability requirements as specified in NASA-STD-8739.3 and MIL-P-50884 are mandatory requirements for items produced on this Purchase Order.
- R - 24 HARDNESS TESTING OF HEAT TREATMENT OR TEMPER:** A report of hardness testing required by the material specification performed after heat treatment or tempering of the material.
- R - 25 PACIFIC SCIENTIFIC SUPPLIED MATERIAL:** If Pacific Scientific Company supplies material, the seller shall furnish a certification which includes the following: "THE ITEMS SUPPLIED ON OUR SHIPPER NUMBER \_\_\_\_\_ AGAINST PURCHASE ORDER \_\_\_\_\_ WERE MANUFACTURED FROM MATERIAL SUPPLIED BY PACIFIC SCIENTIFIC COMPANY, THEIR CODE AND LOT NUMBER\_\_."
- R - 26 EVIDENCE OF COMPLIANCE WITH SPECIFICATIONS (CERTIFICATE OF COMPLIANCE):** The seller shall include with each shipment, a statement that test reports, inspection records or other verifiable documentation of quality indicating conformance to all specifications, are maintained at seller's facility and available for review upon request.
- R - 27 SELLER'S FINAL INSPECTION REPORT:** A copy of the sellers final inspection report detailing the result of the inspections performed on the lot being submitted shall be included with each shipment. The report shall also contain each of the following: 1) inspection lot size, 2) sample size selected, and 3) quantity of samples inspected which were found acceptable.
- R - 28 WEBBING CERTIFICATION AND PACKAGING:** Supplier shall provide a certification statement specifying the minimum strength of the material provided. Further the seller shall provide a certification statement stating compliance with FAR 25.853(a) and Pacific Scientific Company latest DR1187 and revision. Seller shall individually identify each roll and/or piece of webbing provided with the following minimum information: Pacific Scientific Company Purchase Order Number, webbing type, size, color, and condition (U to denote untreated, is acceptable).
- R - 29 FLAMMABILITY TEST REPORT:** Material furnished in fulfillment of this purchase order must be accompanied by a legible copy of a certified Flammability Test Report in compliance with FAR 25.853(a), Appendix F, Part 1(a)(iv).
- R - 30 This contract/purchase order is applicable to US law and interpretation.**



- R - 31 BERRY AMENDMENT:** Materials and specialty metals furnished in fulfillment of this purchase order shall be in accordance with The Berry Amendment as defined in DFARS Clause 252.225-7014, Alt. 1 for specialty metals. When this clause is invoked, specialty metals must be melted in qualifying countries per DFAR 225.872-1. The supplier shall provide certifications with shipment that all specialty metals comply with DFAR 252.225-7014, Alt. 1. Please visit our website for complete DFAR 252 or contact a purchasing agent for clarification.
- R - 32 QUALITY SYSTEM REQUIREMENT:** The Supplier shall maintain a Quality Inspection System that conforms to ISO 9001 and/or AS9100.
- R - 33 PLASTIC PART(S):** No re-grind material being used to fulfill this purchase order.
- R - 34 SUPPLIER QUALITY RECORDS:** Shall be retained for a period of ten years or per Purchase Order.
- R - 35 EXPORT REGULATIONS:** This contract / purchase order is applicable to U.S. Export Regulations. Acceptance of contract or purchase order obligates supplier to adhere to export and re-export guidelines as mandated by the U.S. Department of State, U.S. Department of Commerce, and Office of Foreign Assets Control.
- R - 36 ITAR:** Domestic and international suppliers are required to provide U.S. ECCN or ITAR export classification and/or HTS code and country of origin for all items included on shipping documents.
- R - 37 COUNTERFEIT PARTS:** In accordance with AS-5553, Counterfeit parts means subject parts that are a copy or substitute without legal right or authority to do so, or whose performance or characteristics are knowingly misrepresented. Seller agrees and shall ensure that Counterfeit Parts are not contained in delivered products through the implementation of policies that include prevention, detection and risk mitigation methods to protect against their use. In the event Seller suspects that it has furnished Counterfeit Parts, it shall immediately notify Pacific Scientific and report in writing whether such parts should be replaced with genuine parts. When requested by Pacific Scientific, Seller shall provide (if available) Authorized Supplier documentation that authenticates traceability of the parts. Seller shall include this clause or reasonably equivalent provisions in all subcontractors for the delivery of items that will be furnished to or included in products furnished to Pacific Scientific. If the seller fails to comply with the requirements of this clause, such failure shall constitute a material breach and Pacific Scientific shall have the right to all available remedies in law and in equity.
- R - 38 FOREIGN OBJECT DEBRIS / DAMAGE:** The material supplied on this purchase order shall be manufactured in an environment that is free of foreign objects. Material supplied shall be free of foreign objects and foreign object damage. The Supplier shall utilize effective FOD prevention practices in accordance with NAS-412 (NAS standard for FOD) as applicable to the product being supplied. 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. Whenever and/or wherever FOD entrapment or foreign objects can migrate seller's FOD prevention efforts shall, as appropriate, consider the following elements Design & Manufacturing Process Review, Performance Measurement, Training, Material Handling and Parts Protection, Housekeeping, Tool Accountability, Hardware Accountability, Lost Items, Physical Entry Control into FOD Critical Areas, and FOD Focal Point(s).
- R - 39 CHANGE CONTROL/NOTIFICATION:** Supplier shall notify MSSI/Pacific Scientific/HTL of any change of sufficient significance relative to FAIR, production process, location, and interruption of production.
- R - 40 Standard of Ethics and Safety:** The supplier shall institute a culture that upholds practices related to Anti-Bribery, Ethics, Health and Safety, Cyber Security, Modern Slavery, Anti-Fraud, etc.

## REVISION RECORD



Rev.	Description	Name	Signature	Date
A	Added standard requirements: Unless ...sub-tier suppliers. Revised R-21, R-36. Added R-40.	J.Mandrell / R. Vicknamparampil		06-01-18
B	Revised R-21	L. Paden		09-13-18
C	Revised R-21 to 2 years.	L. Paden		09-14-18

**OBSOLETE**  
**10-31-18**