# Lockheed Martin Space Quality Clauses

Lockheed Martin (LM) hereinafter shall mean Lockheed Martin Space. Notwithstanding any other provisions, all articles furnished hereunder are subject to the General Provisions of the Procurement Document and the following Special Provisions Quality Assurance Clause(s) when indicated by Quality Code(s).

Articles defined in the Procurement Document will not be accepted by Lockheed Martin if the Supplier fails to submit certification, documentation, test data, and reports specified herein.

**Quality Clause Cross Reference Instructions:**

Scroll down to find the LM Quality Code, Quality Clause title and text, or use the Microsoft find function in Word to locate the Quality Clause Text. Go to “Edit” and “Find”. Type the Quality Code and select “Find Next”.

If you have any questions regarding the use of this list, please contact the subcontract administrator as identified on the procurement document.

# Quality Clauses

| Q-Code | QID | Title | Long-Text |
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| **QUALITY MANAGEMENT SYSTEMS** | | | |
| QAQC02 | 1 | QMS—QAQC02 QUALITY SYSTEM DESIGN | The Manufacturer's Quality System shall conform to the requirements described in SAE AS9100, Model for Quality Assurance in Design/Development, Production, Installation, and Servicing; and be approved in EXOSTAR at the time of production. Third party registration by an accredited registrar under the International Accreditation Forum may be accepted; if the Manufacturer changes registrars, loses its registration status, or is put on notice of losing its registration status, it shall notify LM. A Manufacturer declaring system compliance to AS9100 with no accredited registration must be subject to an onsite survey and approval. The Manufacturer's Quality System will be subject to review and approval at all times by Lockheed Martin. |
| QAU | 1 | ENGINEERING EVALUATION IN PROCESS | PA post audit approval required (LOCKHEED MARTIN INTERNAL USE ONLY) |
| QD4A | 1 | QMS—QUALITY SYSTEM REQUIREMENTS (ISO 9001:2015 DESIGN) | The Manufacturer's Quality System shall conform to the requirements described in ISO 9001, Model for Quality Assurance in Design, Development, Production, Installation, and Servicing; and be approved in EXOSTAR at the time of production. Third party registration by an accredited registrar under the International Accreditation Forum may be accepted; if the Manufacturer changes registrars, loses its registration status, or is put on notice of losing its registration status, it shall notify LM. Quality System certification to AS9100 will be accepted as a substitute if approved in EXOSTAR. A Manufacturer declaring system compliance to ISO 9001 with no accredited registration must be subject to an onsite survey and approval. The Manufacturer's Quality System will be subject to review and approval at all times by Lockheed Martin. |
| QD4B | 1 | QMS—QUALITY SYSTEM (ISO 9001:2015 NO DESIGN) | The Manufacturer's Quality System shall conform to the requirements described in ISO 9001, Model for Quality Assurance in Design, Development, Production, Installation, and Servicing; with exclusions to Section 7; and be approved in EXOSTAR at the time of production. Third party registration by an accredited registrar under the International Accreditation Forum may be accepted; if the Manufacturer changes registrars, loses its registration status, or is put on notice of losing its registration status, it shall notify LM. Quality System certification to AS9100 will be accepted as a substitute if approved in EXOSTAR. A Manufacturer declaring system compliance to ISO 9001 with no accredited registration must be subject to an onsite survey and approval. The Manufacturer's Quality System will be subject to review and approval at all times by Lockheed Martin. |
| QD4C | 1 | QMS—QUALITY SYSTEM (SAE AS9100 NO DESIGN) | The Manufacturer's Quality System shall conform to the requirements described in SAE AS9100, Model for Quality Assurance in Design/Development, Production, Installation, and Servicing; with exclusions to Section 7; and be approved in EXOSTAR at the time of production. Third party registration by an accredited registrar under the International Accreditation Forum may be accepted; if the Manufacturer changes registrars, loses its registration status, or is put on notice of losing its registration status, it shall notify LM. A Manufacturer declaring system compliance to AS9100 with no accredited registration must be subject to an |

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| | | | onsite survey and approval. The Manufacturer's Quality System will be subject to review and approval at all times by Lockheed Martin. |
| QQLS | 1 | PRODUCT ASSURANCE EXHIBIT "S" APPLIES | The applicable Product Assurance requirements are contained in Exhibit "S" to the Statement of Work previously provided to the Supplier. |
| QT4A | 1 | QMS—QUALITY SYSTEM REQUIREMENTS (SAE AS9120) | The Supplier's Quality System shall conform to the requirements of the elements described in SAE AS9120, Quality Management Systems – Aerospace Requirements for Stocklist Distributors. Certification registration by an accredited registrar may be accepted. Supplier declaring system compliance to AS9120 with no formal accredited registrar will be surveyed for approval. The Supplier's system will be subject to survey and approval at all times by Lockheed Martin.<br><br>This Quality System Requirement is not applicable to this product's Original Equipment Manufacturer (OEM)/Original Component Manufacturer (OCM).<br><br>Approval to a higher level Quality Management System may also be accepted. |
| QT4B | 1 | QMS—QUALITY SYSTEM REQUIREMENTS (SAE AS9003) | The Manufacturer's Quality System shall conform to the requirements described in SAE AS9003, Inspection and Test Quality System; and be approved in EXOSTAR at the time of production. Third party registration by an accredited registrar under the International Accreditation Forum may be accepted; if the Manufacturer changes registrars, loses its registration status, or is put on notice of losing its registration status, it shall notify LM. Quality System certification to AS9100 or ISO 9001 will be accepted as a substitute if approved in EXOSTAR. A Manufacturer declaring system compliance to AS9003 with no accredited registration must be subject to an onsite survey and approval. The Manufacturer's Quality System will be subject to review and approval at all times by Lockheed Martin. |
| Q4M | 1 | SUBTIER TO APPROVE THEIR OWN SPECIAL PROCESSES | **LM internal note: DO NOT FLOW TO SUPPLIERS ON PO. This Q-Code is in 253-01 for supplier **reference** only.*<br><br>If a supplier is approved to Q4M (SQDANQ4M00), they are granted Lockheed Martin approval of the Contractor's system to control their own Sub-tiers. Use of non-Lockheed Martin approved sub-tiers for special processes is allowed.<br><br>To be granted the Q4M approval, the supplier must adhere to the following:<br>a. Supplier must be AS9100 certified.<br>b. Supplier's procedural requirement for an on-site survey to an adequate process specific questionnaire performed by a technical SME.<br>c. Must utilize a vendor rating system that identifies unacceptable sub-tier performance with criteria for corrective action and criteria and frequency for re-survey<br>d. Must have a managed list of sub-tier processor approval(s) that contains approval by specification and expiration dates.<br><br>If approved to Q4M, supplier must provide with each shipment a list of suppliers used for each special process listed by specification and performance date. Use of the ship-to-module is still required but needs filled out a special way. Once in the ship-to-module on the special process step: |

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| | | | 1. Highlight the special process<br>2. Select special processors<br>3. Select yourself as the special processor<br>a. If your name does not show up as an approved processor, contact your LM buyer to have the hierarchy table updated.<br><br>For additional information on how to use the ship-to-module, view the downloadable guide here. |
| **SUPPLIER REQUIREMENTS** | | | |
| QAQC04 | Q | QAQC04 FLOWDOWN REQUIREMENTS | This clause mandates that all applicable requirements that are invoked or applied to the customer's purchasing document, including this clause, shall be flowed down to the organization's sub-tier suppliers. |
| QAQC24 | Q | QAQC24 GIDEP | The contractor shall participate in the Government-Industry Data Exchange Program (GIDEP) in accordance with the requirements of the GIDEP S0300- BT-PRO-010 and S0300-BU-GYD-010, available from the GIDEP Operations Center, PO Box 8000, Corona, California 91718-8000. The contractor shall review all GIDEP ALERTS, GIDEP SAFE-ALERTS, GIDEP Problem Advisories, GIDEP Agency Action Notices, and NASA Advisories to determine if they affect the contractors products/services provided to NASA. For those that affect the program, the contractor shall take action to eliminate or mitigate any negative effect to an acceptable level. The contractor shall generate the appropriate failure experience data report(s) (GIDEP ALERT, GIDEP SAFE-ALERT, GIDEP Problem Advisory) whenever failed or nonconforming items, available to other buyers, are discovered during the course of the contract. |
| QC5 | Q | CONTAMINATION CONTROL | Articles ordered under this Contract shall be cleaned by the Contractor as required by the Lockheed Martin contamination control specifications. Cleaning and/or testing of the articles shall be performed in facilities with procedures and equipment approved by Lockheed Martin. Each article shall be identified with a "Cleaning Status Certification and Identification Tag". The tag shall be attached in a prominent position not in contact with significant surfaces. |
| QD4 | Q | PRODUCT ASSURANCE D274855 APPLIES | LM/D274855, Rev. "I". "Statement of Work for the Supplier Repair Program of Government-Owned Equipment", applies. |
| QM10 | Q | STATEMENT OF WORK | Articles defined in this Purchase Agreement are subject to additional requirements per a statement of work, which must be met to achieve compliance to contract requirements. Articles will not be accepted by Lockheed Martin if contractor fails to comply with the requirements of the statement of work. |
| QM7 | Q | CONFORMANCE REQUIREMENTS - MECHANICAL DETAILS | The instrument(s) used for final acceptance must be calibrated to and capable of measuring one-fifth of the tolerance (5:1 accuracy ratio) to be checked. And a certification of this capability must be submitted with each shipment.<br><br>Supplier's Quality Department shall one-hundred percent (100%) inspect all parts to assure total conformance to all drawing characteristics and requirements. The actual measured results from one (1) part of each lot must be documented and submitted with each shipment. In addition, the actual measured results for all X.XXXX dimensions and dimensions with a tolerance of 0.002 or tighter shall be recorded for all parts and this data submitted with the parts upon delivery to Lockheed Martin. |

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| QM8 | Q | PRINTED WIRING BOARD FABRICATION REQUIREMENTS | Fabrication requirements per 3GPS-RQ-09-0080, for rigid boards, or 3GPS-RQ-09-0081, for flex and rigid flex boards, are invoked on this order. In the event of a conflict between 3GPS-RQ-09-0080 or 3GPS-RQ-09-0081 and the drawing, the drawing shall take precedence. |
| QPS | Q | ENGINEERING PURCHASE SPECIFICATION (EPS) APPLY | The supplier shall: (1) Procure materials, processes and/or production services only from LM-approved suppliers listed in the LM Engineering Purchasing Specifications (EPS). (2) Perform only to the revision of the EPS in effect on the date the purchase order or subcontract was placed. (3) Obtain from suppliers required certifications and/ or reports (certificates of conformance, test reports, etc.) listed in the applicable EPS. LM may review, audit, or perform surveillance of activities by your sub tier suppliers, during performance of this order. |
| QQ32A | Q | NONDELIVERABLE SOFTWARE REQUIREMENTS | The Contractor shall plan, develop, and implement those practices and procedures that are necessary to assure compliance with the following requirements for hardware designed, tested, supported, or operated by software.<br><br>Contractor shall provide controls to ensure that different software program versions are accurately identified and documented, that no unauthorized modifications are made, that all approved modifications are properly incorporated, and that software used for testing is the proper version.<br><br>Contractor shall ensure that support software and computer hardware to be used to develop and test software or hardware under the procurement agreement are acceptable to Lockheed Martin.<br><br>Contractor shall establish a baseline of procured or developed software by performing validation tests that include demonstration of pass/fail criteria.<br><br>Lockheed Martin reserves the right to observe all validation tests and shall be notified at least three (3) days in advance of the start of testing. |
| QQAQC09 | Q | AQC09 CALIBRATION SYSTEM | The organization shall have a documented calibration system that meets the requirements of ISO 10012, “Quality assurance requirements for measuring equipment”, or “International Organization for Standardization [ISO]” ANS/ISO/IEC 17025:2017. Third party registration by an accredited registrar will be accepted. Contractor declaring system compliance with no formal accredited registrar may be reviewed. The Contractor’s calibration system is subject to review and approval at all times by Lockheed Martin. |
| QQD3 | Q | MATERIAL REVIEW AUTHORITY | The supplier is delegated material review authority for all article characteristics contained in supplier drawings that are not specified requirements of the Lockheed Martin drawings or Purchase Agreement and do not have a direct effect on such specified requirements. If the supplier is uncertain as to the effect on specified requirements, the concurrence of the Lockheed Martin Quality Representative shall be obtained. This authority does not extend to the use of Material Review Board (MRB) for the purpose of changing engineering criteria, which can only be accomplished by drawing change. This delegation is contingent on Lockheed Martin's approval of the supplier's capability to meet the intent of Mil-Std-1520 and is subject to review at any time by Lockheed Martin. Material Review records, reports, documentation and qualification of personnel will be made available to the Lockheed Martin Quality Representative upon request. This delegation of material review authority can be rescinded at any time by written notification from Lockheed Martin Quality. |

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| QQD4K3 | Q | QUALITY PROGRAM REQUIREMENTS (ANSI/NCSL Z540.1) | The Contractor's Calibration System shall conform to the requirements of the elements described in ANSI/NCSL Z540.1, either part 1 or part 2, and is subject to review and approval at all times by Lockheed Martin.. Third party registration by an accredited registrar will be accepted. Contractor declaring system compliance to ANSI/NCSL Z540.1 with no formal accredited registrar, will be reviewed. The Contractor's system will be subject to review and approval at all times by Lockheed Martin. The Contractor's signed certification must state (1) traceability to the National Institute of Standards and Traceability, (2) tool or gage number, and (3) Contract number. |
| QQD4K6 | Q | ISO 17025 – TEST FACILITY REQUIREMENTS | The Contractor's Laboratory shall conform to the requirements of the elements described in ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Third party registration by an accredited registrar will be accepted. A Contractor declaring compliance to ISO/IEC 17025 with no formal accredited registrar will be reviewed by Lockheed Martin. The Contractor's system will be subject to review and approval at all times by Lockheed Martin. The Contractor shall maintain test control systems that confirm Lockheed Martin hardware meets test requirements listed on the order. Lockheed Martin may inspect all deliverable items before, during or after test, before shipment or during final inspection and acceptance at destination. Lockheed Martin may require repair or rework of any deliverable item that fails to meet requirements. Rejected items may be submitted during or after testing but must be confirmed acceptable, by the Buyer, before shipment may occur. |
| QQS5A | Q | Foreign Object Elimination (FOE) Program Requirement | The supplier shall develop and maintain a Foreign Object Elimination (FOE) Program to prevent the introduction of foreign objects or materials into any item delivered under this purchase order. The supplier shall determine the necessary level of controls required to ensure products are processed in an appropriately clean environment, and remain free of Foreign Object Debris (FOD). The requirements of the supplier's FOE Program, as well as any relevant work products (e.g., work instructions, forms or metrics), shall be documented and available to Lockheed Martin upon request. The supplier's Certification of Conformance represents that all delivered products are free of any loose or foreign materials that could result in Foreign Object Damage.<br><br>Guidance for the setup/implementation of a FOE Program can be found at: http://www.lockheedmartin.com/us/suppliers/resources.html. |
| QQWGC | Q | WGC/EDSS WORK GROUP COLLABORATION (ONLINE DATA SUBMITTAL) | WGC/EDSS - WORK GROUP COLLABORATION/ELECTRONIC DATA SUPPLIER SUBMITTAL - If WGC and /or EDSS training has been provided, all documentation must be submitted using this method. |
| QS8 | Q | SUPPLIER DELEGATION PROGRAM | Contractor shall comply with the program requirements defined for Supplier Acceptance Delegation Program. The Contractor shall have the Supplier Acceptance Program Delegation letter on file, authorizing Acceptance Authority for this Purchase Order line item. Contractor must contact the Lockheed Martin Buyer prior to initiation of work if evidence of acceptance authority is not on file.<br><br>Contractor shall include, with each parts shipment, a Supplier Quality Report indicating the results of the final inspection per the DQRP agreement. |

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| QTP | Q | PRODUCT ASSURANCE OD63425 APPLIES | Active Supplier and supplier's subtiers shall comply with the requirements of the current issue of OD63425 for all materials and processes specified in design disclosure called out in this purchase order or subcontract. Requests for changes to OD63425 to add or modify substitutions shall be submitted to LM subcontracts via a Supplier (Supplier) Request for Information or Change (VRIC) in accordance with A689426. |
| QEDSS | Q | ELECTRONIC DATA SUPPLIER SUBMITTAL | All supplier documentation must be submitted electronically to LM Space using the Electronic Data Supplier Submittal (EDSS) system.<br><br>EDSS is a proven data storage and retrieval system used by LM Space to provide secure, two-factor authentication storage and retrieval of supplier data. Supplier access to the EDSS tool is achieved by using "AccessLM".<br><br>Supplier must contact the LM Space Supply Chain Quality Assurance EDSS sponsor or their LM Space Global Supply Chain representative for help/support on obtaining access to "AccessLM" and use of the EDSS tool.<br><br>Send Email to EDSS Resource Account: wgc-edss.fc-lmssm@lmco.com to contact EDSS sponsor.<br>EDSS training material can be found:<br>https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/space.html |
| **CERTIFICATE OF CONFORMANCE** | | | |
| Q1L | Q | C of C for Group A, B, C, D, and/or E Tests | The supplier shall submit a Certificate of Conformance (C-of-C) indicating that Group A, B, C, D and/or E tests were performed, as required by the procurement document, per applicable Military specification(s).This C-of-C shall indicate the specific group(s), lot number(s), date code(s), and part number(s) that qualified the product. |
| QA5 | Q | CERTIFICATE OF CONFORMANCE REQUIRED BY LM | Organization (Supplier, Dealer Distributor, or Manufacturer) shall provide a certification with each shipment to attest that the materials furnished to Lockheed Martin are in conformance with applicable requirements of the Contract.<br>Certification must contain the following:<br>-Lockheed Martin Purchase Order number<br>-Part number specified on Lockheed Martin PO<br>-Name and address of manufacturing location (or Cage Code)<br>-Quantity shipped<br>-Manufacturer's traceability is required (Ex. Lot, heat, batch, date code, serial number), except for commercial specification items that do not have a traceability requirement<br>-Signature and date by company representative (electronic signature is acceptable)<br>The applicable material test results, process certifications and inspection records shall be presented upon Customer's request. Organization shall perform inspection, as necessary, to determine the acceptability of all articles under this Order. All articles submitted by Organization under this Order are subject to final inspection and acceptance at Customer's plant. |

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| QB11 | Q | CERTIFICATE OF COMPLIANCE FOR LEAD CONTENT | Electronic, electrical, electro-mechanical and/or mechanical piece parts, and assemblies (including internal hardware) shall NOT have tin plating or tin finishes with greater than 97.0% tin content by weight. This requirement also applies to component leads, terminals, carriers, bodies, cages brackets, housings, mechanical items and fasteners (nuts, bolts, screws, rivets, washers, etc.).<br><br>The supplier's Certificate of Conformance represents that the product, and each sub-tier supplier's product(s) contained therein, meet this requirement.<br><br>The Supplier shall insert the substance of this clause, including this sentence, in all lower-tier subcontracts for work performed under this contract. |
| QB5 | Q | MATERIAL AND PROCESS CONFORMANCE | The Contractor shall submit with each shipment, a Certificate of Conformance, shall be dated and bear the signature and title of an authorized Contractor's Representative, stating that the materials furnished to Lockheed Martin are in conformance with applicable requirements of the Contract, drawings and specifications and that supporting documentation is on file and will be made available to Lockheed Martin or Government Representatives upon request. Certification shall include name of Contractor for materials being supplied, quantity shipped, and Contract number. An example of an acceptable statement of certification of conformance is as follows: "This is to certify that all items noted are in conformance with the Contract, drawings, specification and other applicable documentation that all process certifications, chemical and physical test reports, are on file at this facility and are available for review by Lockheed Martin." |
| QB5A | Q | LOCKHEED MARTIN FURNISHED MATERIAL CERTIFICATION | The Contractor shall submit with each shipment, a Certificate of Conformance, shall be dated and bear the signature and title of an authorized Contractor's Representative, stating that the hardware furnished to Lockheed Martin is in conformance with applicable requirements of the Contract, drawings, and specifications, and that Lockheed Martin furnished material was used in the manufacture of the hardware. An example of an acceptable statement of Certificate of Conformance is as follows: "This is to certify that all items noted are in conformance with the Contract, drawings, specifications, and other applicable documentation. Material was furnished by Lockheed Martin and no substitutions have been made without Lockheed Martin authorization. " When Substitutions have been authorized, the certification will be modified to indicate the source, nature, and date of the authorization. |
| QCOC | Q | CERTIFICATE OF CONFORMANCE REQUIRED BY LM | Seller shall submit a signed/stamped and dated Certificate of Conformance (C of C) with each shipment prior to shipment.<br><br>Note: AS9163 to be used as guidance for completion of compliant C of Cs. For Buyer Vendor Item Control or Source Control Drawings, Seller shall certify to the part number specified on the PO.<br><br>For Buyer Part Numbers, Vendor Item Control, or Source Control Drawings, C of C shall identify at a minimum:<br><br>1. Manufacturer's name<br>2. Manufacturer's Address, Cage Code, or DUNS<br>3. Buyer PO and Line Item number<br>4. Material quantity |

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| | | | 5. Buyer drawing number and Revision<br>6. Buyer parts list revision when parts list is specified on Buyer drawings or defined in the PO.<br>7. Seller part number and revision when specified as part of the Buyer drawing requirements<br>8. Traceability Data (if applicable) (i.e. serial number, date code, production lot number)<br><br>For Seller Part Numbers, C of C shall identify at a minimum:<br><br>1. Seller's name<br>2. Manufacturer's Address, Cage Code, or DUNS<br>3. Buyer PO and Line Item number<br>4. Material quantity<br>5. Seller part number<br>6. Traceability Data (if applicable) (i.e. serial number, date code, production lot number)<br><br>For Special Processes Used to Produce Purchased Part by Buyer, C of C shall identify at a minimum:<br><br>1. Special processor's name<br>2. Manufacturer's Address, Cage Code, or DUNS<br>3. Date special process performed<br>4. Material number special process performed on<br>5. Material quantity special process performed on<br>6. Indication that special process was performed in accordance with stated specification<br>7. Signed/stamped and date of special process completion by Special Processor<br>8. Traceability Data (if applicable) (i.e. serial number, date code, production lot number) |
| QTC6 | Q | COUNTERFEIT PART, MATERIAL, AND WORK AVOIDANCE AND CERTIFICATION | • 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 Lockheed Martin written approval prior to procurement and use, which shall be contained within the deliverable data package.<br>• The supplier shall verify the procurement source and associated certifying documentation.<br>• Supplier's receiving inspection process shall utilize incoming inspection or test methods, or both, to detect potential counterfeit parts, material or work.<br>• The supplier shall flow this clause in its entirety or equivalent (replacing "Lockheed Martin" with "supplier") 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.<br><br>*All definitions can be found at the following link under 'Counterfeit Work Definitions':<br>http://www.lockheedmartin.com/us/suppliers/bu-info/space/space-tandc.html |

| APPROVAL / ACCEPTANCE | | | |
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| QA1 | Q | LOCKHEED MARTIN ACCEPTANCE AT DESTINATION | Articles ordered under this Contract are subject to final acceptance at the Lockheed Martin facility as set forth on the face of the Contract. |
| QA5B | Q | ACCEPTANCE TEST PROCEDURES | The Contractor shall prepare separate detailed test procedures, encompassing tests required for acceptance. Each item of hardware, or part thereof, which requires acceptance testing, shall be covered by an Acceptance Test Procedure. Acceptance Test Procedures require Lockheed Martin approval prior to the delivery of the first unit of hardware. Subsequent changes are subject to Lockheed Martin approval prior to incorporation. Where these tests are performed utilizing equipment controlled by computer software or firmware, the software or firmware associated with, or affecting, those tests require Lockheed Martin approval at the same time(s) as the remainder of the Acceptance Test Procedure. |
| QC4 | Q | ORDNANCE REQUIREMENTS | Fifteen (15) days prior to shipment to the first article, a drawing or sketch and specification sufficient to inspect, assemble, checkout, test, and store this material must be forwarded to Lockheed Martin, Attention: Manager Safety Department, together with the following information:<br>A. The identity and unit weight of explosive(s);<br>B. Maximum sensitivity of the explosive(s) (Mechanical, electrical, and/or thermal);<br>C. Contractor's drawing or part number, lot number, year of manufacture and serial number of each component, if applicable.<br><br>Contractor's acceptance test procedures, shall include:<br>1) Minimum current for "All Fire;"<br>2) Maximum current for "No Fire;"<br>3) Recommended checkout procedure;<br>4) Environmental limitations. |
| QD9 | Q | PRE-CAP VISUAL INSPECTION PROCEDURE APPROVAL | Supplier shall obtain Buyer's review and approval of its Pre-Cap Visual Inspection Procedure prior to Pre-Cap visual inspection on items to be delivered under this order at least 30 days prior to the Pre-Cap visual inspection. |
| QLJ | Q | COMPLIANCE WITH ACCEPTANCE TEST REQUIREMENTS | Items shipped against this order shall be accompanied by evidence of Supplier's compliance with acceptance test requirements specified in design data or this order. Such evidence shall include a copy of acceptance test data with required actual variable data from acceptance tests performed by Supplier to Buyer's Specifications or other requirements of this order. b. Test data shall (i) be verified by Supplier's Product Assurance or Quality Representative in a manner that identifies the verifying individual, (ii) be provided in accordance with applicable test procedure requirements on either data sheets or, when automated test requirement is used, in a format acceptable to Buyer; (iii) be suitable for microfilming; and (iv) be retrievable by Supplier for three (3) years from date of final payment, for review upon request by Buyer or the Government. c. Prior to performance of acceptance test utilizing automated test equipment, Supplier shall obtain Buyer's concurrence in Supplier's computerized test data format. |
| QLM | Q | ACCEPTANCE TEST PROCEDURE APPROVAL | Supplier shall obtain Buyer's review and approval of its acceptance test procedures (ATP), including Screening, Quality Conformance Inspection (QCI), or Qualification as specified, (i.e. test program, electrical and screening), PRIOR to conducting tests on items to be delivered under this order. a. If, due to type of software or test routines involved, it is necessary for Buyer to perform this review at Supplier's facility, |

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| | | | Supplier shall so notify Buyer of this requirement and of test program availability thirty (30) days prior to start of testing. b. If the ATP program plan and procedures can be transmitted to the Buyer for review, the ATP shall be submitted at least thirty (30) days prior to start of testing. Supplier shall submit a copy of the ATP used for test, or a certificate indicating the revision of the ATP used for testing, with the shipment. |
| QPOR | Q | QUALITY PURCHASE ORDER REVIEW | ** PO Requirements and Start Up Review Required **<br>A PO Requirements Review with the Supplier, Buyer's Sourcing and Buyer's Quality Representative is required for this Procurement. Upon acceptance of the Purchase Order (PO), the Seller shall request a PO Requirements and Start-up Review using the LM P2P Portal as directed below. Purchase Order Review requests should be made no more than Ten (10) business days after PO acceptance and the Purchase Order Review shall be completed prior to commencing work. Upon Request via P2P, the Buyer/SQE will coordinate a meeting to review the Engineering drawings, PO requirements, Inspection criteria, special processes, Defect History, etc. Please note, In Process or Final inspections cannot be requested until PO Review is complete.<br>Lockheed Martin's approval of supplier's readiness does not release the supplier from the responsibility of meeting all PO requirements.<br><br>To submit a request for PO Requirements and Start-up Review, the Seller shall Log into their Exostar account and access the LM P2P portal. Upon logging in, click on the 'Ship-To LMC' tab. For the specific PO and Line Item, verify the status of the 'Overall PO/Line Quality Status' is 'PO Review Required':<br>Select the PO line item and click on the 'Request LMC Action' button located at the bottom of the 'Ship-To LMC' page. On the Detail & Scheduling' page that displays, enter the desired date for the review with the Buyer's Quality Representative and press the 'Submit' button. Upon submission, the inspection lot number will display within the 'Ship-To LMC' tab.<br><br>For further instruction, please refer to:<br>https://www.myexostar.com/?ht_kb=lmp2p-training-resources<br><br>Or view instructional video under "Request PO Review Video":<br>https://www.myexostar.com/wp-content/uploads/2022/06/How-to-request-PO-review-with-voice.mp4<br><br>NOTE: Overall PO/Line Quality Status within the Ship To Module will prompt "PO Review Required" on the first shipment of each line item. For other PO Requirements inquiries please contact the Buyer. |
| QSP | Q | SPECIAL PROCESS APPROVAL AND CERTIFICATION | Special processes are identified in the Purchase Order (PO) using a 10-digit PO code.<br><br>Processor (Contractor and/or Sub-tier) shall have current, required Lockheed Martin approval(s), including both Quality Management Systems (QMS) and special process approvals in Exostar/P2P at the time of hardware processing through completion of processing. For suppliers approved to Q4M (SQDANQ4M00), refer to the Q4M definition located in the 253-01 document for specific requirements.<br><br>Contractor is responsible for contacting the Buyer's Procurement Representative to request a LM survey 90 days prior to a Lockheed Martin (LM) survey expiration date at the seller's facility or their sub-tier's facility. |

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| | | | Lockheed Martin approval of sub-tier special processing does not relieve the Contractor of the responsibility to ensure that work performed by sub-tier contractors is in accordance with specification requirements and PO codes.<br><br>Sub-Tier suppliers with a Quality only profile, (Qxxxxxxxxx) Supplier ID, must also verify that current Quality system, AS9100/ISO 9001/AS9003/ AC7004 approval are current in Exostar as well as Special Process approvals prior to processing through completion of processing. See Exostar link below for Current Approval guidebook.<br><br>Initial PO requirements review should happen when PO is received from LM or first tier supplier. Possible gates/error proofing can be placed on your traveler, shop work order or router to verify current QMS and Special Process approval are in Exostar prior to special process being performed through completion, with a buy-off step annotated.<br><br>Note: There is an LM-controlled hierarchy table running in the background. When the contractor searches fora specific 10-digit approval code, the output will show all suppliers approved to that approval code and all suppliers approved to an acceptable hierarchy approval code. You must also verify supplier's QMS approval.<br><br>To look up supplier approvals:<br><br>Under the header "**Receiving and Supplier Quality**, **Current Approvals"** section, is a step-by-step instruction on how to look up supplier approvals. Exostar link: https://www.myexostar.com/?ht_kb=lmp2p-training-resources<br><br>The Contractor shall utilize the "Ship To" module in LMP2P to fill out the Special Processor ID field under the "Ship-To Barcode" generation tab prior to shipping material.<br><br>Contractor/First-Tier supplier: If this purchase order line item is for material that will be shipped to LM or a facility designated by LM, please log-on to your Exostar account.<br><br>A comprehensive step-by-step guide to the "**Ship to LMC**" Module can be found at Exostar University LMP2P Training Resources, https://www.myexostar.com/?ht_kb=lmp2p-training-resources under the heading "**Receiving and Supplier Quality"** in the module "**Ship to LMC**."<br><br>For additional questions, including expirations coming due, review Exostar current approvals, contact your Space Supply Chain representative, Buyer/Sub-Contracts Management POC, or First-Tier Supplier to request survey/approval.<br><br>Loss of Quality Management System certification, change of manufacturing location, or process change that could impact product Quality must be communicated to LM Buyer/Sub-Contracts Management POC. |

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| | | | **A special process certification** shall be provided with each delivery of item(s) under this Purchase Order. Special process certifications may be in Contractor's format and shall include the following: -<br><br>- Purchase Order number<br><br>- Part number(s)<br><br>- Serial and/or lot numbers of the hardware processed (if required)<br><br>- Material process specification & revision number<br><br>- Special Process/revision and date performed<br><br>- Certification stating the special process was performed per the drawing/specification requirements<br><br>- Processing Organization's name and address<br><br>- Signature and date by a company official of the Processor attesting that the processes were performed to the required drawing/specification(s) and satisfy required acceptance criteria.Contractually required specifications are identified on the drawing or parts list for build-to-print items or identified within a designated section of the controlling specification for items being procured under the contract line item of this Purchase Order.<br><br>Methods for obtaining EXOSTAR/P2P approval:<br><br>- Special Process Approval by an on-site survey by Lockheed Martin or Lockheed Martin acceptance of third-party accreditation.<br><br>- Accepted certifications include International Accreditation Forum (I.A.F.) certified bodies, Nadcap and A2LA, IPC, ESDA.<br><br>**The Contractor shall insert the substance of this clause, including this sentence, in all lower-tier purchase orders for work performed under this Purchase Order** |
| QSPS | Q | SPECIAL PROCESS APPROVAL AND CERTIFICATION | Special processes are identified in the Purchase Order (PO) using a 10-digit PO code.<br><br>Processor (Contractor and/or Sub-tier) shall have current, required Lockheed Martin approval(s), including both Quality Management Systems (QMS) and special process approvals in Exostar/P2P at the time of hardware processing through completion of processing. For suppliers approved to Q4M (SQDANQ4M00), refer to the Q4M definition located in the 253-01 document for specific requirements.<br><br>Contractor is responsible for contacting the Buyer's Procurement Representative to request a LM survey 90 days prior to a Lockheed Martin (LM) survey expiration date at the seller's facility or their sub-tier's facility. |

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| | | | Lockheed Martin approval of sub-tier special processing does not relieve the Contractor of the responsibility to ensure that work performed by sub-tier contractors is in accordance with specification requirements and PO codes.<br><br>Sub-Tier suppliers with a Quality only profile, (Qxxxxxxxxx) Supplier ID, must also verify that current Quality system, AS9100/ISO 9001/AS9003/ AC7004 approval are current in Exostar as well as Special Process approvals prior to processing through completion of processing. See Exostar link below for Current Approval guidebook.<br><br>Initial PO requirements review should happen when PO is received from LM or first tier supplier. Possible gates/error proofing can be placed on your traveler, shop work order or router to verify current QMS and Special Process approval are in Exostar prior to special process being performed through completion, with a buy-off step annotated.<br><br>Note: There is an LM-controlled hierarchy table running in the background. When the contractor searches fora specific 10-digit approval code, the output will show all suppliers approved to that approval code and all suppliers approved to an acceptable hierarchy approval code. You must also verify supplier's QMS approval.<br><br>To look up supplier approvals:<br><br>Under the header "**Receiving and Supplier Quality**, **Current Approvals"** section, is a step-by-step instruction on how to look up supplier approvals. Exostar link: https://www.myexostar.com/?ht_kb=lmp2p-training-resources<br><br>The Contractor shall utilize the "Ship To" module in LMP2P to fill out the Special Processor ID field under the "Ship-To Barcode" generation tab prior to shipping material.<br><br>Contractor/First-Tier supplier: If this purchase order line item is for material that will be shipped to LM or a facility designated by LM, please log-on to your Exostar account.<br><br>A comprehensive step-by-step guide to the "**Ship to LMC**" Module can be found at Exostar University LMP2P Training Resources, https://www.myexostar.com/?ht_kb=lmp2p-training-resources under the heading "**Receiving and Supplier Quality"** in the module "**Ship to LMC**."<br><br>For additional questions, including expirations coming due, review Exostar current approvals, contact your Space Supply Chain representative, Buyer/Sub-Contracts Management POC, or First-Tier Supplier to request survey/approval.<br><br>Loss of Quality Management System certification, change of manufacturing location, or process change that could impact product Quality must be communicated to LM Buyer/Sub-Contracts Management POC. |

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| | | | **A special process certification** shall be provided with each delivery of item(s) under this Purchase Order. Special process certifications may be in Contractor's format and shall include the following: -<br><br>- Purchase Order number<br><br>- Part number(s)<br><br>- Serial and/or lot numbers of the hardware processed (if required)<br><br>- Material process specification & revision number<br><br>- Special Process/revision and date performed<br><br>- Certification stating the special process was performed per the drawing/specification requirements<br><br>- Processing Organization's name and address<br><br>- Signature and date by a company official of the Processor attesting that the processes were performed to the required drawing/specification(s) and satisfy required acceptance criteria.<br><br>Contractually required specifications are identified on the drawing or parts list for build-to-print items or identified within a designated section of the controlling specification for items being procured under the contract line item of this Purchase Order.<br><br>Methods for obtaining EXOSTAR/P2P approval:<br><br>- Special Process Approval by an on-site survey by Lockheed Martin or Lockheed Martin acceptance of third-party accreditation.<br><br>- Accepted certifications include International Accreditation Forum (I.A.F.) certified bodies, Nadcap and A2LA, IPC, ESDA.<br><br>**The Contractor shall insert the substance of this clause, including this sentence, in all lower-tier purchase orders for work performed under this Purchase Order** |
| **NON-CONFORMANCE / CHANGE PERFORMANCE** | | | |
| Q1Z | Q | SUPPLIER NON-CONFORMANCE REQUIREMENT INSTRUCTIONS | Submit the following to LM: 1.Proposed changes to LM-approved technical, supplier configuration or supplier process requirements. 2. Material, parts or assemblies that don't meet Procurement Order requirements via Supplier Request for Information or Change (VRIC). A Subcontract or Purchase Order Change Notice will list each LM-approved change and/or LM Material Review Board action(s). |
| Q3Z | Q | SUPPLIER "RED FLAG" TIMELY FAILURE REPORTING | Report Acceptance, Qualification and/or Reliability Test failures of deliverable hardware/software to LM'S Procurement Representative via a verifiable method within 24 hours of failure ("Red Flag Report"). The test configuration shall not be disturbed until the failure is verified or until directed by LM. Written notification, satisfying the LM Program requirement provided detailed format, must be submitted within 72 hours of the |

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| | | | Test failure. Interim Reports may be required at intervals not to exceed 30 days. Upon Failure resolution, a Final Failure Report, satisfying the LM Program requirement provided format, shall also be submitted. Failures determined to be caused, within the 72 hour window above, by test equipment, operator error etc. with no damage or degradation the deliverable item do not require such written reports. Copies of the Supplier's Failure Report(s) shall be kept at the Supplier for review and/or submitted to LM with the deliverable item(s). |
| QA10 | Q | CLASS 1 OR CLASS 2 CHANGES | The subcontractor or sub-tier supplier makes no changes to the design, specification, configuration, material, part, or manufacturing process which affects the form, fit, function, reliability, or maintainability of goods without prior contractual approval of the Lockheed Martin Subcontract Manager. These changes are considered Class I changes as defined by MIL-STD-973 and require Lockheed Martin written approval prior to implementation.<br><br>All other changes being considered by the Subcontractor which alter the hardware configuration, manufacturing flow, or test flow are considered Class II changes and are submitted to Lockheed Martin for review prior to implementation to ensure such changes will not be detrimental to the ultimate application. The submittal documents the original process, the proposed change, and the verification methods to be used to ensure the change performs and influences the product only as expected. |
| QA9 | Q | LM PQA NOTIFICATION OF SUPPLIER CHANGES | The Organization shall provide in writing advance notification to their LM Contract Administrator of any change(s) to, Name, Quality Management Systems, Ownership, facilities, or processes at the Organization or the Organizations sub-tier that could affect the Customers contracted product. |
| QAQC11 | Q | AQC11 CHANGE AUTHORITY | The Organization shall provide in writing advance notification to the Customer of any change(s) to tooling, facilities, materials or processes at the Organization or the Organizations sub-tier that could affect the Customers contracted product. This includes, but is not limited to, fabrication, assembly, handling, testing, facility location or introduction of a new sub-tier supplier. |
| QAQC23 | Q | AQC23 NONCONFORMANCE REPORTING | Under this clause, Customer grants no MRB authority to the Organization or it's sub-tier suppliers. Repair is not allowed under this clause.<br><br>Definitions:<br><br>Nonconformance: A condition of any article, material or service in which one or more characteristics do not conform to requirements specified in the contract, drawings, specifications, or other approved product description. Includes failures, discrepancies, defects, anomalies, and malfunctions.<br><br>Rework: Used when an article can be made to conform to drawing requirements. Detailed instructions must be included or referenced.<br><br>Repair: Used when the nonconforming article, material or service can be corrected to a usable condition, although its condition will not be identical with drawing / specification requirements. "The organization shall ensure that product which does not conform to product requirements is identified and controlled to prevent its unintended use or delivery.<br><br>The controls and related responsibilities for dealing with nonconforming product shall be defined in a |

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| | | | documented procedure.<br><br>The organization's documented procedure shall define the responsibility for review and authority for the disposition of nonconforming product and the process for approving personnel making these decisions."<br><br>Data Requirements: Any nonconformance discovered by the organization, on products in their control, shall be documented by the organizations' approved method of nonconformance reporting. This shall include a detailed description of the nonconformance; location (by drawing reference point, hardware reference point, clock location, etc.); and exact callout of the violation by drawing or specification requirement (including, sub-paragraph or illustration number). It shall also list what type of inspection revealed the discrepant condition, and what, if any, subsequent actions were taken prior to disclosure. Dimensional violations shall include "should be" and "is" dimensions, and tool(s) calibration traceability numbers.<br><br>Nonconformance Preliminary Review: The preliminary review process shall be initiated with the identification and documentation of a nonconformance. A preliminary review shall be the initial step performed by the organization to determine if the nonconformance needs to be reported to the customer (see below), and to determine if the nonconformance is minor and can be re-worked to a condition that completely conforms to the drawing or specification requirements.<br><br>Note: preliminary review does not negate the requirement to identify, segregate, document, report and disposition nonconformances.<br><br>Nonconformances shall be reported to the customer under the following conditions. When notification is required, notification shall be within 3 working days after the nonconformance is discovered.<br><br>· The problem is detected during one of the following:<br>1. Certification, acceptance, or qualification testing<br>2. Other "significant" test as specified by the customer<br>3. Turnaround, maintenance, overhaul, and repair of flight, ground test operation or shipping and receipt of hardware delivered to the customer including any test involving hardware previously accepted by the customer and returned for repair, modification, etc.<br><br>· And it is:<br>1. Flight hardware<br>2. Flight Hardware Spares<br>3. Equipment that is representative of flight hardware (flight-like hardware), including prototype and qualification hardware<br>4. Ground Support Equipment (GSE) that is safety critical |
| QB4F | Q | FAILURE ANALYSIS REPORT | The Contractor shall perform a failure analysis on item(s) returned under this Contract and shall provide to Lockheed Martin, as a minimum, the following information with the shipment or as directed by contract: |

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| | | | 1) Date of report;<br>2) Contract number;<br>3) Contractor's name and address;<br>4) Part name, number, revision level, and serial/number;<br>5) MARS number (if specified by Contract);<br>6) Specific and contributory causes of failure;<br>7) List of parts required to repair item(s);<br>8) Corrective action taken to preclude recurrence and effectivity by date or serial number of corrective action;<br>9) Signature and title of Contractor's Quality Representative approving the failure analysis report. |
| QD1 | Q | PRELIMINARY REVIEW AUTHORITY | The supplier is delegated Preliminary Material Review authority (PMR) for hardware nonconformances. This authority is limited to dispositions of Rework to engineering requirements, return to previous operation for reprocessing, Scrap (unless material was<br>supplied by Lockheed Martin), Repair to a Lockheed Martin approved standard repair instruction (SRI), and Return to Subtier Supplier. This authority does not extend to the use of a Material Review Board (MRB) for the purpose of changing engineering criteria, which can only be accomplished by drawing change. |
| QLZ | Q | FAILURE/DISCREPANCY THRESHOLD | If this Purchase Order is for any of the art types listed below, Supplier shall inform Buyer of test failures/discrepancies on end item acceptance test that exceed the percentage listed below: Capacitors ---> Failure/Discrepancy Threshold = 20%,Crystal Oscillators ---> Failure/Discrepancy Threshold = 20%,Diodes and Transistors --->Failure/Discrepancy Threshold = 20%,Fuses ---> Failure/Discrepancy Threshold = 15%, Microcircuits, Hybrids ---> Failure/Discrepancy Threshold=20%,Microcircuits, Monolithic ---> Failure/Discrepancy Threshold = 30%,Printed Circuit Boards/Flex Cables --> Failure/Discrepancy Threshold = 20%,Relays ---> Failure/Discrepancy Threshold = 1 5%,Resistors ---> Failure/Discrepancy Threshold =15%,Thermistors --> Failure/Discrepancy Threshold = 15%. In the event any drawing, specification, or other document incorporated in this Purchase Order contains a conflicting requirement, the drawing, specification, or other document shall take precedence over this clause. Notification shall be submitted to Buyer via Supplier Request for Information or Change (VRIC), which may be obtained from Buyer. |
| QTB5 | Q | NONCONFORMING ITEMS SEPARATION | Supplier shall identify and segregate nonconforming supplies in order to prevent their use, shipment or commingling with conforming supplies. Only Buyer's Material Review Board may authorize acceptance. Request disposition of nonconforming supplies on Supplier Request for Information or Change (VRIC). |
| QTM5 | Q | REJECTED MATERIAL RESUBMISSION | Any items under this order which are rejected by Buyer and returned to Supplier for repair or replacement will be returned to Supplier on a shopper or consignment order which indicates, “Supplier Responsibility”, “Buyer Responsibility”, or “Responsibility Unknown”. Such items shall either be replaced or reworked to specification and resubmitted to Buyer. When an LM Discrepancy Report (DR) or Nonconformance Report (NCR) IS FORWARDED TO Supplier with rejected items, the DR or NCR number shall be entered on Supplier’s shipping document. Supplier’s shipping documentation shall include : (i) a statement detailing the corrective action taken to prevent recurrence of the cause of rejection or recommended action to avoid further rejection if cause of rejection is beyond Supplier’s control; and (ii) a statement indicating whether the item was reworked or replaced. If reworked, a description of the rework operations performed shall be included. If Supplier is unable to verify the failure, Supplier shall submit Supplier Request for Information or Change (VRIC) to Buyer and obtain disposition instructions. |

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| QSC | Q | QUALITY SYSTEM CHANGES AND CUSTOMER FINDINGS | a. Seller shall notify customer procurement representative via Vendor Request for Information or Change (VRIC), which may be obtained from customer procurement representative; within 10 days of any of the following:<br>1. change in its quality system status; or<br>2. loss of certification status; or<br>3. change in Seller's quality organization, processes or procedures that are known to affect or could potentially affect conformity of any Item; or<br>4. adverse action taken by a US Government entity (e.g. FAA, CAA, OSHA, DoD, EPA, etc.), third party registrar, International Government Agencies, or Nadcap to include, but is not limited to, any of the following:<br>i. Issuance of any major Level II or Level III Corrective Action Request associated with Buyer Items, Quality Management System or processes associated with Buyer Items<br>ii. Issuance of a major finding by a third-party registrar<br>iii. Suspension of Government Source Inspection |
| **TESTING / TEST SAMPLES** | | | |
| Q32 | Q | PART QUALIFICATION TESTS | Part Qualification Tests shall be conducted in accordance with the applicable device specification. Data derived from the qualification tests shall be submitted to LM for review/approval. Part number marking on the Qualification unit packaging shall include the suffix "Non-Flight" immediately after the last character of the part number. Unless otherwise specified by the drawing/specification, the supplier shall apply a permanent "yellow dot" to non-flight units (recommend a Dykem Texpen Industrial Paint Marker). |
| QAQC16 | Q | AQC16 NDI/NDT CERTIFICATION | Organization will include with each shipment a certificate for the NDI/NDT performed. As a minimum, the certification shall contain the following information:<br>· Customer's Purchase Order / Contract number<br>· Name and address of the Company performing NDI/NDT;<br>· Date of Inspection;<br>· Quantity of parts tested by part number;<br>· Specification or other requirement defining the NDI/NDT acceptance / rejection criteria;<br>· Inspector/name/stamp and NDI/NDT certification level;<br>· NDI/NDT specification including revision;<br>· Material or item identification (part number, heat lot number, Foundry Record (FR) number;<br>· Material or item traceability (serial number, lot number, batch number, lot/date code);<br>· Inspection results (accept/reject);<br>· Reference to previous NDI/NDT reports for repair/rework if applicable;<br>· Reference to attached recordings i.e., films or photographs if applicable; A record of the procedures or techniques used and actual results shall remain on file for at least five years after shipment to Customer and shall be furnished to Customer upon request. These records shall include all information required in the previous paragraph as well as acceptance / rejection criteria, and related test instrument data used in the NDI/NDT process. |
| QB2A | Q | RAW CASTINGS AND FORGINGS | Two samples of all raw castings and forgings are required from new or reworked dies or molds and must be approved by Lockheed Martin prior to run of production parts. Unless Lockheed Martin source surveillance |

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| | | | is a requirement of the Contract, the samples shall be forwarded to Lockheed Martin Receiving Inspection with the actual results of layout inspection, radiographs, and actual chemical and physical test results. When Lockheed Martin source surveillance is a requirement of the Contract, the layout and test data shall be evaluated at the Contractor's facility. In either case, first article approval by Lockheed Martin is required prior to the start of production. The Contractor is responsible for obtaining Lockheed Martin approval of any change in processes or tooling using the same approval instructions stated above. |
| QB3B | Q | TENSILE TEST SAMPLES | Two (2) separately cast test bars, coupons, or appendages as defined by the applicable specification or drawing shall be submitted with each lot delivered. |
| QB6 | Q | NEUTRON RADIOGRAPHIC INSPECTION FOR COMPONENTS | Components ordered require neutron radiographic inspection in accordance with LAC SPEC-3701.An original neutron radiograph must be submitted to LM for review and approval at the time of hardware delivery. |
| QB9 | Q | TEST SAMPLES | Concurrent with the shipment of production articles, Contractor shall furnish test sample(s) of each batch sufficient to conduct tests in accordance with specification or contract requirements. Each test sample must be clearly and permanently marked with:<br><br>(1) batch or lot number;<br>(2) date manufactured;<br>(3) specification or material control information number;<br>(4) Contractor's designation;<br>(5) contract number. |
| QCG | Q | ENVIRONMENTAL TEST LIMITS | Seller shall assure that weapons specifications (environmental test limits) are not exceeded. Review environmental test records prior to retest of new hardware and hardware returned for rework; if additional testing will exceed environmental specification limits notify LM. |
| QDE | Q | QUALITY CONFORMANCE TEST | Quality Conformance Test (QCI) shall be conducted on each test lot according to the applicable specification. QCI test data shall be recorded and shall be delivered with the parts. |
| QDPA | Q | DPA IDENTIFIER CODE | This line item is for DPA. This DPA quantity shall be from the same date/lot code and be associated and shipped with the identical part number being ordered for production. |
| QPSDPA | Q | DPA PRE-SHIPPED FROM SUPPLIER | DPA sample size as noted in this Purchase Order shall be submitted to the LM Space Analysis Lab prior to final lot shipment. Lot shipment is contingent upon receipt of a passing DPA Report from the LM Space Procurement Representative. Please fill out the form provided in its entirety and attach any supporting data needed to complete the DPA. A failed DPA lot for which the vendor still wishes to seek LM Space approval, will require the submittal of a Vendor Request for Information or Change (VRIC). A subcontract or Purchase Order change notice will list each answered VRIC with an applicable approved change and/or Material Review Board action. Copies of answered VRICs shall be included in the deliverable documents package. |
| QFC | Q | GROUP INSPECTION MOUNTS/COUPONS | All mounts used for Group A Inspections and any remaining part of the coupon that has not been micro sectioned must be included in the shipment and will be stored at LM. Mounts/coupons must be bagged separately from the PWB, but may be attached to the PWB bag. Mounts/coupons are subject to verification by LM Materials & Process Lab prior to final hardware acceptance. |
| QML | Q | RADIATION LOT ACCEPTANCE TEST | Supplier must accomplish Radiation Lot Acceptance Test (RLAT) testing of items delivered under this PO. |

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| QQTS | Q | PIND TEST REQUIRED | Particle Impact Noise Detection Testing (PIND) Devices listed in this order shall be 100% Particle Impact Noise Detection (PIND)-tested per:<br>(1) MIL-STD-883, Method 2020, Test Condition "A", for microcircuits,<br>(2) MIL-STD-883, Method 2020, Test Condition "A" or "B", for hybrids,<br>(3) Mil-STD-750, Method 2052,Condition "A", for transistors,<br>(4) Mil-PRF-19500 for diodes, and<br>(5) Mil-PRF-39016, Rev. E, Appendix "B", and the Manufacturer's Approved Procedure, for relays.<br>The manufacturer or a Lockheed Martin-approved test lab shall perform PIND testing to the above requirements. PIND test data shall be delivered with the parts listed in this order. |
| **DATA / TEST REPORTS** | | | |
| Q1B | Q | DATA REQUIRED WITH EACH SHIPMENT | If a lot is split and a partial shipment is made, all required data shall accompany each shipment. An additional copy of the data (i.e. test data, certificates of conformance, etc.) must be included in the follow-on shipments. When samples or sample data are sent separately, they must reference the original purchase order number, line item, and date of shipment. If a partial shipment is made, annotate it on the shipper. |
| QAQC06 | Q | AQC06 CERTIFICATE OF COMPLIANCE RAW MATERIALS | Organization will include with each shipment the raw material manufacturer's test report (e.g., mill test report) that states that the lot of material furnished has been tested, inspected, and found to be in compliance with the applicable material specifications. The test report will list the specifications, including revision numbers or letters, to which the material has been tested and/or inspected and the identification of the material lot to which it applies.<br><br>When the material specification requires quantitative limits for chemical, mechanical, or physical properties, the test report will contain the actual test and/or inspection values obtained. For aluminum mill products (except castings), certifications for chemistry may indicate compliance within the allowed range. Certifications for physical properties will show actual values.<br><br>When organization supplies converted material produced by a raw material manufacturer, the organization shall submit all pre and post conversion chemical / physical tests reports.<br>A test report is permitted to indicate conformance through a certification statement when the specification/drawing requires inspection for dimensional tolerances ONLY for metallic raw stock (such as sheet, plate, bar, rod, or other forms).<br><br>In addition to actual test reports, the suppliers certification statement signifies the material being delivered conforms to the specification or contract with regards to all qualitative attributes such as, but not limited to, workmanship, material, appearance, color, quality, visual, method of construction, packaging, preparation for delivery, labeling, or marking. |
| QAQC26 | Q | AQC26 ELECTRICAL WIRE AND CABLE TEST REPORT | Organization shall provide certification that each shipment of electrical wire or cable furnished under this contract conforms to the applicable specifications.<br><br>For each lot or cable in each shipment, a certified test report or copy thereof shall be included with the packing sheet. The test report shall, at a minimum, include a record of the physical, chemical, or electrical (and in the case of RF cable, electronic) inspections and tests conducted to satisfy the acceptance requirements of applicable specifications, and shall include numerical results when applicable. For cable |

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| | | | shipments, these requirements apply to both basic and finished cable.<br><br>When the specification requires other inspection or test data to be reported, it shall be included in the test report. Reports shall provide the Organization or Supplier's name, the specification number and revision date or change letter, and other data required by the specification, and must be identified to or correlated with the lot shipped. |
| QB1 | Q | RADIOGRAPHS | Radiographs shall be supplied with the material to Lockheed Martin. |
| QB14 | Q | SUPPLIER DATA SHEET | Supplier data sheet shall be provided with shipment. |
| QB2B | Q | SUPPLEMENTAL DATA REQUIREMENTS (CASTINGS/FORGINGS) | In addition to chemical/physical test reports stating the actual chemical and mechanical properties for each lot submitted, inspection/test data listed below shall be submitted for each lot of castings or forgings as required by specification or Contract. Certification for Magnetic Particle, Fluorescent Penetrant Inspection, Ultrasonic Inspection, Pressure Test, and Grain Flow shall be submitted with the order. Radiographic Inspection results including film for each casting shall be supplied. These reports shall be validated by an authorized representative of the Contractor's Quality Department, by either an inspection stamp or signature. |
| QB4 | Q | TEST REPORTS - SUBMITTAL | Actual test reports referencing Contract number, Contractor's name and address and/or independent laboratories' name and address, part number, part name, serial number if applicable, date and run time if applicable, must accompany each shipment to be delivered. The test report shall contain the actual test and/or inspection values obtained when the specification/drawing specifies limits for chemical, mechanical, electrical, physical, or other properties. Additionally, these reports shall be validated by an authorized Contractor's Representative through the application of an inspection stamp, a signature and title or electronic approval method.<br><br>In addition to actual test reports, the suppliers certification statement signifies the material being delivered conforms to the specification or contract with regards to all qualitative attributes such as, but not limited to, workmanship, material, appearance, color, quality, visual, method of construction, packaging, preparation for delivery, labeling, or marking. |
| QD26 | Q | ORDNANCE REQUIREMENTS – COMPETENT AUTHORITY DOC | Explosives Documentation and Shipping Information<br><br>Supplier shall submit Department of Transportation documentation of Competent Authority as to material classification, material description, explosive classification, and shipping information. LM Source Representative shall verify existence of documentation. Shipping information necessary to properly package, mark, and label, in accordance with Department of Transportation Hazardous Materials Regulations and competent authority shall be included in the shipment. Articles defined in this Purchase Agreement are subject to Lockheed Martin inspection at destination and may not be accepted by Lockheed Martin if the contractor fails to ship the above data. Upon receipt at Lockheed Martin, the data will be sent to the LM Ordnance Storage facility operator. |
| QQK | Q | ABBREVIATED RAW MATERIAL CERT | Hardware delivered per this order shall be traceable to the raw material used for manufacture by source (lot, batch or heat number, material type, specification, applicable revision letter or number and records of acceptance).The lot identifier shall be recorded on all certificates and packages for this order. |

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| QSN | Q | Data required with shipment | Drawings, sketches, and specifications sufficient to inspect and/or test this material shall accompany each shipment under this contract. |
| QTD1 | Q | DATA LIST NOT A REQUIREMENT | Design documentation as specified by this procurement document may contain a reference note to the Data List. The Data List has been discontinued as part of the design documentation package for this item. |
| QTM6 | Q | MFG'D ARTICLES RAW MAT'L TEST REPORTS | Supplier (or manufacturer) shall maintain on file, and Supplier shall assure availability for Buyer's review upon request, results of chemical and/or physical tests required to satisfy specification requirements for raw materials used in the manufacture of items delivered under this order. Unless otherwise specified, files of such test results shall be retained for a minimum of three (3) years after completion of Supplier's performance under this order. |
| **DIMENSIONAL INSPECTION** | | | |
| Q56 | Q | DIMENSIONAL INSPECTION 100% | Supplier shall perform 100% detailed/dimensional inspection, record the actual dimensional data for all drawing characteristics, and compliance with drawing notes for all parts. The recorded data, related material, and process certs (as applicable) shall be delivered with the parts for each lot shipped. |
| QAQC17 | Q | AQC17 100% ATTRIBUTE CLAUSE | "The organization shall submit (1) reproducible copy of all inspection documentation stamped or signed by the responsible quality inspector showing 100% inspection for all attributes noted on the drawings, for all parts submitted under this Contract/Purchase Order." |
| QD36 | Q | CRITICAL CHARACTERISTIC INSPECTION REQUIREMENTS | The contractor shall perform 100% inspection of critical characteristics identified in the Lockheed Martin engineering document. The contractor shall submit a certificate of compliance with each shipment attesting that all critical characteristics have been verified, to meet the requirements of the engineering document(s). The certification shall contain as a minimum<br>- A listing of the critical characteristics verified,<br>- The name of contractor,<br>- Part number,<br>- Purchase order number,<br>- Serial number(s) (when applicable)<br>- Quantity of parts shipped.<br>Certification must be validated by an authorized representative of the contractor's Quality Department, by either an Inspection Stamp or signature and a date in which the inspection occurred. |
| QEH | Q | DIMENSIONAL INSPECTION CRITICAL CHARACTERISTICS | The contractor shall perform 100% inspection of critical characteristics identified in the Lockheed Martin engineering document. The contractor shall submit a certificate of compliance with each shipment attesting that all critical characteristics have been verified, to meet the requirements of the engineering document(s). The certification shall contain as a minimum a listing of the critical characteristics verified, the name of contractor, part number, purchase order number, serial number(s) (when applicable) and quantity of parts shipped. Certification must be validated by an authorized representative of the contractor's Quality Department, by either an Inspection Stamp or signature and a date in which the inspection occurred. |
| QQB | Q | DIMENSIONAL INSPECTION REPORT | Inspection, Dimensional. Perform a 100% dimensional inspection on one part, randomly chosen, or, if more than one machining process line is used, one part chosen from each line to confirm that each line produces acceptable hardware. Record actual dimensional data for each selected part and ship one copy of the data with the hardware. First Article Inspection, Form 3, in accordance with AS9102, will satisfy the QQB requirements when Form 3 is fully accomplished for a given production run. |
| **INSPECTIONS (Other)** | | | |

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| Q6A | Q | GOVERNMENT CONFORMANCE VERIFICATION REQUIREMENTS | Mandatory Government Conformance Verification action is required at your plant for the parts manufactured for this contract. Upon receipt of this contract, immediately contact your local Defense Contract Management Agency (DCMA) Quality Assurance Representative for compliance. See code QAQC13 for detailed instructions. |
| QAQC03 | Q | AQC03 RIGHT OF ACCESS | Work under this purchase order/contract is subject to government or customer surveillance/inspection at organization's plant or sub-tier supplier's facility. The organization will be notified if a surveillance/inspection is to be conducted. |
| QAQC13 | Q | AQC13 GOVERNMENT SOURCE INSPECTION | All work on this Purchase Contract is subject to inspection and test by the Government at any time and any place. Government inspection is required on this order prior to shipment from Organization's facility. Government inspections performed will be determined by the delegated Government inspection representative and may be conducted during processing, fabrication, or final inspection. Upon receipt of this Purchase Contract, promptly notify the Government representative who normally services your plant so that appropriate Government inspection planning can be accomplished. If your facility is not serviced by Government inspection and/or the area Government inspection representative or agency cannot be located, immediately notify Customer.<br><br>NOTE: Do not proceed with fabrication/manufacture processing until Government mandatory inspection points (GMIPs) are added to Organization's manufacturing planning. GMIPs shall not be by-passed unless authorized in writing by the Government inspection representative. Organization shall request and include the documents specified in the Government delegation, in the shipment.<br><br>The Government's request for source inspection shall specify the period and method for the advance notification and the Government representative to whom it shall be furnished. Request shall not require more than 2 workdays of advance notification if the Government representative is in residence in the Contractors plant, nor more than 7 workdays in other instances.<br><br>Organization, without additional charge to the procurement document, shall provide all reasonably required facilities and assistance (applicable drawings, specifications, change orders, inspection and/or test equipment) for the US Government representative to perform their duties.<br><br>Organization shall ensure that Government inspection acceptance is evident for every individual GMIP and that completion of Government inspection is evident on Organization's shipping document/packing list. Evidence may be the signature of Government inspection representative with printed name and office, or application of the representative's stamp.<br><br>The Government shall accept or reject supplies as promptly as practical after delivery, unless otherwise provided in the contract. Government failure to inspect and accept or reject the supplies shall not relieve the Contractor from responsibility, nor impose liability on the Government, for nonconforming supplies.<br><br>When manufacturing processing affected by GMIPs is subcontracted by Organization, the provisions of this Clause shall be included in the Organization's Purchase Order verbatim. |

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| QAQC14 | Q | QAQC14 CUSTOMER SOURCE INSPECTION (CSI) | Customer source inspection is required prior to shipment of articles from the Organization's facility. Upon receipt of this Order and prior to commencing work, promptly notify the Customer's Procurement Quality Assurance Representative (PQAR) assigned to the Organization's facility so the appropriate inspection plan can be coordinated.<br><br>The supplier shall use EXOSTAR to arrange source inspection. The supplier may view a source inspection request process document using the following link:<br><br>https://www.myexostar.com/?ht_kb=lmp2p-training-resources<br><br>In the event that a Procurement Quality Assurance Representative does not normally service the Organization's facility, immediately notify the Customer Procurement representative to obtain a point of contact for the appropriate Procurement Quality Assurance Representative (PQAR) assignment.<br><br>Source inspection shall be conducted by the Customer at the Organization's facility or where designated in the Order. The Organization shall notify PQAR office a minimum of five (5) working days in advance of the time the articles or materials are ready for inspection or test.<br><br>The Organization shall make available to the PQAR all applicable drawings, specifications, procedures, statements of work, Customer's Order, test software, and changes thereto, related inspection and/or test equipment, and such other information as may be required to satisfactorily perform the inspections and tests required under this Order. |
| QAQC14A | Q | QAQC14 CUSTOMER SOURCE INSPECTION (CSI) - NON MATERIAL BACKED PR | Customer source inspection is required prior to shipment of articles from the Organization's facility. Upon receipt of this Order and prior to commencing work, promptly notify the Customer's Procurement Quality Assurance Representative (PQAR) assigned to the Organization's facility so the appropriate inspection plan can be coordinated.<br><br>The supplier shall use EXOSTAR to arrange source inspection. The supplier may view a source inspection request process document using the following link:<br><br>https://www.myexostar.com/?ht_kb=lmp2p-training-resources<br><br>In the event that a Procurement Quality Assurance Representative does not normally service the Organization's facility, immediately notify the Customer Procurement representative to obtain a point of contact for the appropriate Procurement Quality Assurance Representative (PQAR) assignment.<br><br>Source inspection shall be conducted by the Customer at the Organization's facility or where designated in the Order. The Organization shall notify PQAR office a minimum of five (5) working days in advance of the time the articles or materials are ready for inspection or test.<br><br>The Organization shall make available to the PQAR all applicable drawings, specifications, procedures, statements of work, Customer's Order, test software, and changes thereto, related inspection and/or test |

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| | | | equipment, and such other information as may be required to satisfactorily perform the inspections and tests required under this Order. |
| QAQC15 | Q | AQC15 FIRST ARTICLE INSPECTION | Organization is required to perform 100 percent inspection and record the attributes for the first article of this Contract / Purchase Order, and shall be in accordance with AS9100 and AS9102. If the deliverable is an assembly, this inspection shall also include all of the piece parts that make up the assembly. The inspection records and data shall be per AS9102 and shall identify each characteristic and feature required by design data, the allowable tolerance limits, and the actual dimension measured as objective evidence that each characteristic and feature has been inspected and accepted by the Organization's quality and inspection function. When testing is required, the parameters and results of the test shall be recorded in the same manner. The First Article Inspection Report must show evidence of acceptance by the Organization's quality assurance representative.<br><br>The First Article(s) shall be produced on production equipment and using processes which will be utilized on production runs.<br><br>Additionally, the Organization shall perform additional First Article Inspection(s) per the requirements of AS9102 (i.e.: following every major tooling, every design change, and subsequent to any evident quality degradation for a specified part or article).<br><br>Records of all first article activity will be documented as required in AS9102, treated as quality / acceptance records, and made available to Customer if requested. |
| QCF | Q | GOVERNMENT SOURCE INSPECTION C OF C | Hardware listed in this Purchase Order (PO) has Mandatory Government Source Inspection requirements, Classification of Characteristics (CC's). Supplier must contact local Defense Contract Management Agency (DCMA) Quality Assurance Representative, prior to start of production, to coordinate with DCMA the mandatory inspections. All CC inspection characteristics must be included in the shop travelers before starting production and include a space for DCMA to buy-off (stamp or physical/electronic signature) at each attribute. If a Navy Gage is used at your facility for the verification of a hardware feature, then the Gage(s) must be maintained in accordance with OD60758, Procedure-Receipt, Care and Shipment of Navy Special Interface Gages. See enclosure to this PO for the list of CC's. The enclosure, sent out as a part of this PO, is the governing document unless superseded by a Purchase Order Change Notice. If the CC listing is not an enclosure in this PO it must be obtained from DCMA. Note: Only those CC's attributes that are affected in a Rework/Repair/SLE PO shall require re-inspection and require a space in the shop traveler for DCMA stamp or physical/electronic signature. |
| QCV | Q | FACILITY ENGINEERING SOURCE INSPECTION | LM source inspection is required at the manufacturing plant. Contact LM Facility Engineering at (321) 476-7382 between the hours of 0730800 and 1615 00 EPST for direction and scheduling of source actions as required. |
| QPWB3 | Q | PWB CONFORMANCE COUPON INSPECTION - THIRD PARTY | Inspection of conformance coupons shall be completed prior to LM Final Source inspection and prior to shipment of flight units. Coupon inspection test report for the lot shall be reviewed by PWB manufacturer for acceptance and included in the data package presented during LM Final Source inspection at the manufacturer facility. |

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| | | | Coupon inspection shall be performed by a Program approved Third Party |
| QPWBLM | Q | PWB CONFORMANCE COUPON INSPECTION - LM | Inspection of conformance coupons shall be completed prior to LM Final Source inspection and prior to shipment of flight units. Coupon inspection test report for the lot shall be reviewed by PWB manufacturer for acceptance and included in the data package presented during LM Final Source inspection at the manufacturer facility.<br><br>Coupon inspection shall be performed by LM.<br><br>Include on paper work with shipment:<br>PO Number<br>Part number<br>D/C<br>S/N<br>Paperwork must state "Preliminary PWB test coupons enclosed, not flight parts, do not post PO". |
| QTC2 | Q | PRECAP INSPECTION | Buyer's pre-cap visual inspection is required at your facility. Upon receipt of this order, and also five (5) working days in advance of each established pre-cap inspection point, notify the Procurement Quality Assurance Field Representative (PQAR) who normally services the Supplier's facility. Notification shall include the PO number. In the event that a Procurement Quality Assurance Representative does not normally service the Supplier's facility, immediately notify the LM Procurement Representative to obtain a point of contact for the appropriate PQAR assignment. |
| QTD2 | Q | FIRST ARTICLE INSPECTION | First article inspection is to be performed by LM inspection team. Notify responsible Buyer five working days prior to start of first article inspection. |
| **PART MARKING / SHIPPING / HANDLING** | | | |
| Q0M | Q | PART AND DATA MARKED W/UNIQUE SERIAL NUMBER | The supplier shall permanently identify each part with a serial number. The supplier's control system shall ensure that each serial number is not duplicated. Inspection and test records shall also be identified by the serial number of each inspected or tested part. |
| Q0W | Q | MANUFACTURER MARKING | The supplier shall mark/identify the name, address or cage code of the manufacturer on the shipper, the smallest unit container, or outer shipping container. Use of other manufacturers or distributors does not relieve the supplier of meeting all of this order. |
| QAQC20 | Q | AQC20 PACKAGING REQUIREMENTS | Organization's Quality Control organization shall be responsible for ensuring that items provided under this Contract/Purchase Order are packaged in such a manner that the dimensional integrity is preserved, contamination and corrosion are prevented, and no physical damage occurs or, when specified, that packaging is in accordance with the drawing, appropriate ASTM, MIL, or other applicable customer specified requirement. |
| QAQC21 | Q | AQC21 PACKAGING, HANDLING AND LABELING | The organization shall provide packaging that maintains the quality of the fabricated item and prevents damage, deterioration, substitution or loss in transit. The organization shall label the exterior of the package to ensure adequate identification of precautions needed to ensure the integrity of the product being shipped. The organization must specify the handling and shipping methods that ensure proper and on-time delivery without damage to the product. The organization shall ensure that special labeling requirements shall also be listed in the appropriate shipping documents and on each package. |

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| QAQC29 | Q | AQC29 ESD PROTECTION PROGRAM AND PACKAGING | The organization shall document and implement an ESD Control Program in accordance with ANSI/ESD S20.20, ESD Association Standard for the Development of an Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices). Parts must be properly packaged and identified as required in ANSI/ESD-S20.20. All goods will be placed in conductive or static-dissipative packages, tubes, carriers, conductive bags, etc., for shipment. The packaging must be clearly labeled to indicate that it contains electrostatic sensitive goods. Electrical parts that may be used or shipped in conjunction with ESD sensitive parts shall be treated as ESD sensitive. |
| QBRCD | Q | BARCODE LABEL REQUIRED | Barcoded labels are required and must be completed through the Ship-To LMC module in LMP2P, accessible through Exostar at http://www.myexostar.com; Exostar Helpdesk: 703-793-7800.<br><br>For information on how to use the ship-to-module, view the downloadable guide here. For suppliers approved to Q4M (SQDANQ4M00), refer to the Q4M definition located in the 253-01 document for specific ship-to-module directions. |
| QC2 | Q | TIME AND TEMPERATURE SENSITIVE MATERIAL | Time and temperature storage conditions must be attached to the packing sheet and accompany each shipment to be delivered hereunder. The outer most shipping box must be marked to indicate "Time and Temperature Sensitive Material" next to the shipping label. The time and temperature sensitive label text font size must be minimum one inch high, not to exceed six inches high.<br><br>*Note: If packaging dimensions do not allow for minimum one-inch text, apply largest text possible. |
| QC7 | Q | SENSITIVE FLIGHT/GROUND EQUIPMENT | SENSITIVE FLIGHT/GROUND EQUIPMENT, HANDLE WITH EXTREME CARE. |
| QC8 | Q | ELECTROSTATIC SENSITIVE DEVICES | Devices delivered under this Contract are Electrostatic Sensitive. The Contractor shall assure that devices delivered are packaged to provide electrostatic protection and identified as ESD in accordance with applicable Procurement Specification. |
| QD27 | Q | MATERIAL SAFETY AND SHIPPING DATA | A. Safety Data Sheet<br>Supplier shall submit a Safety Data Sheet (SDS) (formerly MSDS or Material Safety Data Sheet) with the shipment. Articles defined in this Purchase Agreement are subject to Lockheed Martin inspection at destination and will not be accepted by Lockheed Martin if the contractor fails to ship the above data.<br><br>B. Shipping Data<br>Supplier shall submit the proper shipping classification, flash point, and information necessary to properly ship the articles in compliance with CFR Title 49. Articles defined in this Purchase Agreement are subject to Lockheed Martin inspection at destination and will not be accepted by Lockheed Martin if the contractor fails to ship the above data. |
| QDTS | Q | DOCK TO STOCK PROCESS | This hardware has been designated to be included in the Dock to Stock process. This hardware will bypass receiving inspection and go straight to stock upon receipt as long as the part number on the Purchase Order (PO) matches the packing slip and there is no gross damage to packaging. As an approved |

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| | | | dock to stock supplier to LM, this process does not wave contractual requirements called out within the PO. The Ship-to module in P2P must also be filled out to be accepted.<br>Exostar Help Guides: http://www.myexostar.com/LMCO-Procure-to-Pay/P2P-Support-Guides/ |
| QM16 | Q | DOCUMENTATION ACCEPTANCE (DROP SHIPMENT) | Articles ordered under this contract are to be drop shipped to a destination other than Lockheed Martin. Final acceptance is contingent on the submittal and approval of the Quality data. |
| QNOWGC | Q | ELECTRONIC DATA SUBMITTALS PROHIBITED | Work Group Collaboration – shall not be used for this purchase order item. All quality records shall be supplied along with hardware. |
| QPC | Q | UNRELEASED DOCUMENTATION CONTROL | When procurement is to LM unreleased documentation, supplier shall impound hardware upon completion of the build pending receipt of LM released documentation via a Procurement change notice. Once documentation is official released, supplier may ship hardware. |
| QTR | Q | TAPE AND REEL REQUIRED | Organization (Vendor, Dealer Distributor, or Manufacturer) shall provide all parts on tape and reel. Original component manufacturer's tape and Reel is preferred when possible.<br><br>Tape and reel requirements.<br>• Tape and reel must include a leader and trailer.<br>• Digi-reel MouseReel and similar value-added options are acceptable alternates when parts are ordered from those distributors.<br>• Reels must include barcoded labels containing part number (as it appears on Lockheed Martin Space Purchase Order) and manufacturer's lot date code as a minimum. |
| QXH | Q | NON-FLIGHT ITEM IDENTIFICATION | Identify each item on this order as a Non-Flight Item (NFI).<br>Regarding EEE components/assemblies:<br>The Supplier shall mark EEE Non-Flight devices being delivered or accompanying flight Electronic, Electrical, and Electromagnetic (EEE) components/assemblies with a permanent "yellow dot" unless otherwise specified per the drawing or spec and mark the unit packaging label "NFI". The yellow dot is not required when size precludes marking of small EEE components. Should directions for this marking contradict the component/assembly drawing or specification, drawing or specification shall take precedence. |
| QYH | Q | SOURCE INSPECTION SHIPPING DOCUMENTATION DATA | Supplier Shipping Documentation Requirements. When source acceptance is required by the Buyer, the Seller shall record the Buyer's purchase order number, part number, part number revision, ship quantity and when applicable, contract number, serial number(s), lot number(s) and model number/s on the seller's shipping documentation. When "ship-in-place" is required by the buyer, and a supplier shipper or packing list is not applicable shipment documentation, the seller shall record the required identification on the seller's invoice. |
| **RETENTION / TRACEABILITY** | | | |
| Q6Z | Q | LOT DATE CODE FOUR YEARS | Supplier shall, for each part identity, provide all parts with a lot-date-code no more than four (4) years prior to the date of the Purchase Order to LM. |
| Q6Z7 | Q | LOT DATE CODE SEVEN YEARS | Supplier shall, for each part identify, provide all parts with a lot-date-code no more than seven (7) years prior to the date of the Purchase Order to LM. |

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| Q7Z | Q | LOT DATE CODE TEN YEARS | Supplier shall, for each part identity, provide all parts with a lot-date-code no more than ten (10) years prior to the date of the Purchase Order to LM. |
| QAQC25 | Q | AQC25 RECORD RETENTION | Organization and Organization's Subcontractors shall maintain verifiable objective evidence of all inspections and test performed, results obtained and dispositions of non-conforming articles. These records shall be identified to associated articles, including heat and lot number of materials, unit or lot serialization and made available to Customer and/or Government Representatives upon request and shall be retained in a safe, accessible location for a period of ten (10) years after date of delivery as defined in the contract.<br><br>Organization's records associated with the manufacture of serialized or lot controlled articles will provide for continued traceability of serial numbers or lot number identification through all phases of manufacture, commencing with the raw material and continuing through final acceptance of the end item.<br><br>Records held for the required retention period (ten years) shall not be destroyed without Customer's written concurrence. |
| QAQC27 | Q | AQC27 EEE PARTS DATE OF MANUFACTURE | All Electrical, Electronic or Electromechanical (EEE) parts procured from the organization or its suppliers shall have been manufactured within three (3) years from the delivery date for Plastic Encapsulated Microcircuits (PEMs) and five (5) years for all others. This shall include all sub-assemblies of the article being procured.<br><br>Any deviation from this requirement shall be in the form of a written authorization from the procuring agency, and the authorization shall be included with each shipment. |
| QAQC28 | Q | AQC28 EEE SINGLE LOT/DATE CODE | The full quantity of date code controlled Electrical, Electronic, and Electromechanical (EEE) parts, each part number, provided under this Purchase Order / Contract must have a single lot-date code. The organization will obtain the written approval of the customer's authorized purchasing representative prior to shipping goods that do not meet this single lot / date code requirement.<br><br>In the event that the customer's purchasing representative provides said authorization to ship mixed lot / date codes, the organization shall provide a copy of the written authorization with the shipping document.<br><br>When mixed lot / date codes are authorized, the shipping document shall list individual lot / date codes and quantity. Multiple lot / date codes shall not be co-mingled. In addition, the individual part containers shall be marked with the quantity and lot / date code. |
| QC1 | Q | AGE CONTROL OF RUBBER GOODS | Rubber goods delivered under this Contract shall be identified with cure date or manufacture date, as applicable, and/or shelf life information in accordance with the applicable material specification. Age sensitive rubber goods shall be individually packaged and delivered within 6 months of the cure date or manufacture date. |
| QDJ | Q | LOT DATE CODE TRACEABILITY | Items delivered under this order shall be traceable to the individual wafer, assembly qualification, and/or test lot(s). Individual traceable products shall be lot-date-coded. |
| QDL | Q | LOT DATE CODE ONE YEAR | Supplier shall, for each part identity, provide all parts with a lot-date-code no more than one (1) year prior to the date of the Purchase Order to LM. |
| QDM | Q | LOT DATE CODE TWO YEARS | Supplier shall, for each part identity, provide all parts with a lot-date-code no more than two (2) years prior to the date of the Purchase Order to LM |

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| QM12 | Q | MATERIAL TRACEABILITY FOR BUILD TO PRINT PURCHASES | The contractor shall provide and maintain material traceability for the items in the purchase agreement. Parts shall be identified with a unique lot number for each lot (manufacturer/heat/ lot/batch number) of raw material used in their fabrication. If hardware assembly is applicable to this purchase agreement, traceability shall be maintained through delivery and fabrication records shall summarize the identification of all elements within each assembly. |
| QM13 | Q | MATERIAL TRACEABILITY FOR PD/ST PURCHASES | The supplier shall establish a system for the identification, traceability and control of materials, parts and assemblies from acquisition through fabrication, assembly, test and delivery. The system shall provide for the ready identification of suspect lots when individual items are found discrepant.<br><br>IDENTIFICATION<br><br>Design specifications, source control drawings, and other procurement documentation shall include provisions for identification of materials, parts, and assemblies through one or both of the following procedures:<br><br>A) Serialization of individual elements, such as parts, boards, modules, assemblies, etc., as appropriate with each element identified by a unique number or code.<br><br>B) Lot/group identification when processing impacts a common characteristic within the lot (e.g., mix number, heat number, wire spool, etc.) with each lot identified by a unique number or code.<br><br>RECORDS<br><br>The contractor shall maintain fabrication records which summarize the identification of elements within an assembly. Records, shall include name of supplier, date of manufacture, screening date and other pertinent information. |
| QM17 | Q | SINGLE DATE/LOT CODE | Parts delivered against this Contract shall be from a single date/lot code. The lot identifier shall be recorded on all certificates and packages for this order. Authorization for shipments with multiple date/lot codes must be pre-coordinated with your Lockheed Martin Buyer and documented on the PO/subcontract. When mixed date/lot codes are authorized, the shipping document shall list individual date/lot codes and quantity. Multiple lot/date codes shall not be co-mingled. |
| QT12 | Q | SUPPLIER RETAIN TEST DOCUMENTATION TWELVE YEARS | Supplier shall retain test reports/inspection records/evidence of acceptance for a minimum of twelve (12) years from the date of delivery. |
| QT7 | Q | SUPPLIER RETAIN TEST DOCUMENTATION SEVEN YEARS | Supplier shall retain test reports/inspection records/evidence of acceptance for a minimum of seven (7) years from the date of delivery. |
| QT9 | Q | PWB PROCUREMENT DOCUMENT REQUIREMENTS | Printed wiring boards shall meet the requirements and Engineering Purchasing Specification(s) listed in the Procurement Document (PD). Quality records (i.e. material certifications, test data, mounts, coupons, etc.) |

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| | | | shall be retrievable, within 24 hours after a request by LM, for 3 years after closure of this PD. Notify LM when the 3 year retention period expires and request further direction. |
| QVT | Q | SUPPLIER RETAIN TEST DOCUMENTATION FIVE YEARS | Supplier shall retain test reports/inspection records/evidence of acceptance for a minimum of five (5) years from the date of delivery. |
| QVT6 | Q | SUPPLIER RETAIN TEST DOCUMENTATION SIX YEARS | Supplier shall retain test reports/inspection records/evidence of acceptance for a minimum of six (6) years from the date of delivery. |
| **PROGRAM SPECIFIC** | | | |
| **GPS3** | | | |
| QSQAP | Q | GPS3 QUALITY ASSURANCE PLAN | Supplier must comply with the requirements of the GPS III Subcontract Quality Assurance Plan 3GPS-PN-07-0602-FOP. |
| QGPSGC | Q | GROUP C TEST REVIEW | GPSIII Code Only: For MIL-PRF-38534 Class K components, the supplier shall perform the following:<br>• Prior to accepting each purchase order received, the Supplier shall review Group C test requirements per MIL-PRF-38534 and identify when Group C requalification is required.<br>• The Supplier shall provide an electronic copy of most recent test data to the Purchasing Agency for verification.<br>• The Purchasing Agency will verify and instruct supplier.<br>The Supplier shall provide a copy of the most recent group C test data as part of the final End Item Data Package (EIDP) with shipment. |
| **OPOC** | | | |
| QD13 | Q | MANNED SPACE FLIGHT | Articles ordered in this contract are for use in Manned Space Flight. Materials manufacturing, and workmanship of highest quality standards are essential to astronaut safety. If you are able to supply the desired items with a quality which is higher than that of the items specified or proposed, you are requested to bring this fact to the immediate attention of the purchaser via a LMSSC Vendor Request for Information or Change (VRIC) or sellers' contract letter notification. Each notification will require a documented LMSSC response prior to shipment of the material. As of objective evidence, the Supplier's Certificate of Conformance represents the materials supplied comply to this clause. This clause will be inserted in all subcontracts and purchase orders for such items down to the lowest tier. |
| **THAAD** | | | |
| QQWT | 1 | QMS - PRODUCT ASSURANCE P529634 APPLIES | THAAD Quality document P529634 applies (Ref: THAAD Subcontractor Quality Assurance Requirements for the Launcher Segment). |
| QH5 | Q | PRODUCT ASSURANCE P515987 APPLIES | P515987, THAAD Supplier Foreign Object Elimination Program, applies. |
| QV15 | Q | THAAD FIRST ARTICLE INSPECTION | Organization is required to perform 100 percent inspection and record the attributes for the first article of this Contract / Purchase Order, and shall be in accordance with AS9100 and AS9102. If the deliverable is an assembly, this inspection shall also include all of the piece parts that make up the assembly. The inspection |

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| | | | records and data shall be per AS9102 and shall identify each characteristic and feature required by design data, the allowable tolerance limits, and the actual dimension measured as objective evidence that each characteristic and feature has been inspected and accepted by the Organization's quality and inspection function. When testing is required, the parameters and results of the test shall be recorded in the same manner. The First Article Inspection Report must show evidence of acceptance by the Organization's quality assurance representative. The First Article(s) shall be produced on production equipment and using processes which will be utilized on production runs. Additionally, the Organization shall perform additional First Article Inspection(s) per the requirements of AS9102 (i.e.: following every major tooling, every design change, and subsequent to any evident quality degradation for a specified part or article). Records of all first article activity will be documented as required in AS9102, treated as quality / acceptance records, and made available to Customer if requested.<br><br>Organization shall notify the Authorized Requester ten (10) working days prior to performing FAI. Organization shall perform a full FAI when there is a lapse in production for One (1) year. |
| **FBM** | | | |
| QZ322 | 1 | SMP010720U11 | SMP010720U11 – Letter of Agreement Between Lockheed Martin Space and Universal Propulsion Company, Inc. Pertaining to Procurement Requirements for Ordnance Procurements |
| QQZ1 | 1 | SMP010760U05 | SMP010760U05, Supplier Tech Program Management Requirements for Electrical, Electronic, and Electro-mechanical (EEE) devices. |
| QQZ11 | 1 | SMP010740U04 | SMP010740U04, Supplier Technical Program Management (Quality and Inspection System Requirements) for Suppliers of Missile System Hardware, SMP010740U04. |
| QQZ111 | 1 | F120689 | F120689, Supplier Technical Program Management (STPM) Requirements for High Control LCTMK Products. |
| QQZ181 | 1 | D274866 | D274866, Inspection System Rqmts for MSD Suppliers; See Addendum 1, Doc. No. D598154 |
| QQZ19 | 1 | SMP09478U04 | SMP09478U04, SUPPLIER TECHNICAL PROGRAM MANAGEMENT REQUIREMENTS FOR HIGH CONTROL LCTMK COTS PRODUCTS |
| QQZ20 | 1 | SMP09479U04 | SMP09479U04, SUPPLIER TECHNICAL PROGRAM MANAGEMENT REQUIREMENTS FOR LCTMK COMMERCIAL FLIGHTPROOF TESTED PRODUCTS |
| QQZ22 | 1 | SMP010750U05 | SMP010750U05, Supplier Tech Program Management Requirements for Missile Test & Readiness Equip. (MTRE) |
| QQZ304 | 1 | SMP012701U05 | SMP012701U05, Supplier Technical Program Management Requirements for Honeywell for the Manufacture of Small Reentry Body Inertial Measurement Unit (SRIMU) |
| QQZ9 | 1 | SMP010710U05 | SMP010710U05, Supplier Technical Program Management (STPM) for Support Equipment Suppliers - Updated |
| QZ187 | 1 | D370408 | D370408, LOA - Use of PA STD 8700-Q001A and PA STD 8700-Q002A |
| QZ238 | 1 | D915700 | LMSSC D915700, Supplier Technical Program Management (STPM) Document for Missile System Hardware (including Addendum 1 and Addendum 2) applies. |
| QZ253 | 1 | D915710A | LMSSC D915710, Supplier Technical Program Management (STPM) Document for Missile System Division Support Equipment (including Addendum 1 and Addendum 2) applies. |
| QZ260 | 1 | D915721 | D915721, PA Quality Requirements for PCM Telemetry Systems |
| QZ263 | 1 | D915740 | LMSSC D915740, Supplier Technical Program Management (STPM) Document for Suppliers of Missile System Division (MSD) Hardware (including Addendum 1) applies. |

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| QZ271 | 1 | D915750 | LMSSC D915750, Supplier Technical Program Management (STPM) Document for Missile Test and Readiness (including Addendum 1) applies. |
| QZ299 | 1 | SMP010700U04 | SMP010700U04, Supplier Technical Program Management (STPM) Requirements for Missile System Hardware, applies. |
| QZ312 | 1 | OD 65235 Class 1 | OD 65235 Supplier Quality Requirements for the Trident D5 Life Extension Program – Class 1 Requirements apply |
| QZ313 | 1 | OD 65235 Class 2 | OD 65235 Supplier Quality Requirements for the Trident D5 Life Extension Program – Class 2 Requirements apply |
| QZ314 | 1 | OD 65235 Class 3 | OD 65235 Supplier Quality Requirements for the Trident D5 Life Extension Program – Class 3 Requirements apply |
| QZ315 | 1 | OD 65235 Class 4 | OD 65235 Supplier Quality Requirements for the Trident D5 Life Extension Program – Class 4 Requirements Apply |
| QZ320 | 1 | SMP10764U09 | SMP10764U09 - Product Assurance Quality Requirements (PAQR) Criteria for Supplier Production Readiness |
| QZ321 | 1 | SMP010711U09 | SMP010711U09 - Supplier Technical Program Management (Quality And Inspection System Requirements) For Suppliers of Nuclear Weapons Security – Shore |
| QZ7 | 1 | SMP010706U05 | SMP010706U05, Product Assurance Quality Requirements for Printed Circuit Boards, Multilayer Boards, Rigid Flex Master Interconnect Boards, and Flex Cables - Updated |
| QZ8 | 1 | SMP010709U04 | SMP010709U04, Product Assurance Quality Requirements for LMSSC "Black Box" Subcontractors Electronic Piece Part Requirements & Assessment Program Trident II (D5) - Updated |
| Q26 | Q | FBM FIRST ARTICLE INSPECTION | First Article Inspection (FAI) is to be performed in accordance with FBM FAI Enclosure C. The Supplier shall notify the Authorized Requester identified in Enclosure A five (5) working days prior to performing FAI. |
| Q28 | Q | FBM PRODUCTION INSPECTION | FBM Production Inspection is to be performed and documentation maintained in accordance with Enclosure C production criteria |
| Q29 | Q | DESTROYED/ CONSUMED FBM CII TRACEABLE HARDWARE REPORT SUBMITTAL | Suppliers in receipt of segment serialized hardware (CII - CII is hardware that is assigned an FBM unique serial number (e.g., D5188-XXXXXX) as CFM (Customer Furnished Material) are required to notify LM (Lockheed Martin) when the assets are consumed/destroyed and if consumed, what they are consumed in. Report submittal is required at a minimum to be submitted to the LM Subcontracts Administrator (SCA) twice annually.<br>Report submittal requires the supplier to utilize form FBM-Quality-173-T3 Consume/Destroyed CII Traceable Hardware form.<br><br>Required Information (shall contain at a minimum):<br>• Contractor's name and address<br>o and/or independent laboratories' name and address.<br>• Reference Contract number<br>• LM Serial Number – Lockheed Martin Serial Number<br>• Material Part Number – Part Number of Material<br>• Nomenclature – Material Description<br>• Action Performed – Installation into Higher Assembly/Destroyed in Test/Inventory Count<br>• Transaction Authority Number – Document that item was issued to use |

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| | | | • Date of Action – Date Accomplished<br>• Next Higher Assembly LM Serial Number – Item part installed in<br><br>Note: If there is any clarification required with the above requirement(s), please reach out to your LM SCA for further guidance and direction. |
| Q2Z | Q | FBM SUPPLIER NON-CONFORMANCE REQUIREMENT INSTRUCTIONS: | Submit the following to LMSSC: 1. Proposed changes to LMSSC-approved technical, supplier configuration or supplier process requirements. 2. Material, parts or assemblies that don't meet Procurement Order requirements via Vendor Request for Information or Change (VRIC) per A689426, Instructions to Supplier for Usage and Preparation of the VRIC Form. A Subcontract or Purchase Order Change Notice will list each LMSSC-approved change and/or LMSSC Material Review Board action(s). |
| QQZ3 | Q | SMP010701U04A | SMP010701U04A , Product Assurance Quality Requirements for Electronic Components/Assemblies -– Updated. |
| QQZ4 | Q | SMP010702U05 | SMP010702U05, Product Assurance Quality Requirements (PAQR) for Major Commodities - Updated |
| QQZ5 | Q | SMP010703U05 | SMP010703U05, Product Assurance Quality Requirements for Trident II (D5) Connectors - Updated |
| QQZ6 | Q | SMP010705U04A | SMP010705U04A, Product Assurance Quality Requirements (PAQR) for Trident II (D5) Batteries - Updated |
| QZ10 | Q | SMP010712U05 | SMP010712U05, Product Assurance Quality Requirements for Support Equipment Suppliers. |
| QZ100 | Q | F120362 | F120362, Storage & Surveillance Plan for Ammonium Perchlorate. Supplier Location: Camp Navajo |
| QZ101 | Q | F120388 | F120388, MOA between LMMS and Thiokol Corp. concerning D5 TVC Gas Generator Test Console |
| QZ103 | Q | F120419 | F120419, Letter of Agreement Between LMMS & Naval Ordnance Test Group (SSP 30), Pertaining to Procurement Requirements for Primus Technologies, Inc. Missiles Test and Readiness Equipment |
| QZ104 | Q | F120420 | F120420, Product Assurance Quality Requirements for Printed Wiring Board Master Drawing - MDP Module MK11 MOD 0 |
| QZ105 | Q | F120441 | F120441, Storage and Surveillance Plan (0297EL) for Over-Voltage Gap Switch Supplier Location: LMSSC |
| QZ106 | Q | F120454 | F120454, Letter of Agreement Between LMMS & SPL 214 Pertaining to Procurement Requirements for Gulton-Statham Transducers Inc. |
| QZ107 | Q | F120464 | F120464, Surveillance Inspection Procedure (SIP) for Reentry Body Hardware stored at LMSSC - Santa Cruz |
| QZ108 | Q | F120540 | F120540, Addendum (Exceptions) to LMSC D915700D Pertaining to Supplier Technical Program Management Requirements |
| QZ109 | Q | F120552 | F120552, MOU Between LMSSC & MOOG Incorporated concerning D5 First, Second, and Third State Servo Actuator Assemblies |
| QZ110 | Q | F120594 | F120594, Technical Program Management Requirements System Program Plan |
| QZ112 | Q | F120696 | F120696, Addendum (Exceptions) to LMSC/D824156 applicable to contracts between Lockheed Martin Space Sunnyvale, CA and Microsemi Corporation Santa Ana, CA (Supplier Code 5827150) Pertaining to supplier technical Program management requirements. |
| QZ113 | Q | F120697 | F120697, Addendum (Exceptions) to LMSC/D824156 Applicable to Contracts Between Lockheed Martin Space Sunnyvale, CA and Microsemi Corporation Scottsdale, AZ 85251 (Supplier Code 5827251) Pertaining to Supplier Technical Program Management Requirements |
| QZ118 | Q | F311954 | F311954, LOA Btwn LMSC & Ford Aerospace Corp., Aeronutronic Div., Pertaining to Procurement Rqmts for Trident II Integrated Valve Assem. & Sequence Valve Assem. |
| QZ12 | Q | SMP010741U05 | SMP010741U05, Product Assurance Quality Requirements for FBM Hardware - Updated |
| QZ120 | Q | A267976 | A267976, PAWS 21 - Hi-Rel Test Data and Lot Acceptance Test (LAT) Sample Control |

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| QZ121 | Q | A267987 | A267987, PAWS 37 - Process Charts & Flow Diagrams |
| QZ122 | Q | A267991 | A267991, PAWS 41 - Test Report Requirements for hardware Other Than Pyrotechnics |
| QZ125 | Q | A268005 | A268005, PAWS 56 - Retention of Product Quality Records |
| QZ126 | Q | A268008 | A268008, PAWS 62 - Product Assurance Documentation |
| QZ127 | Q | A268012 | A268012, PAWS 64 - Product Assurance Documentation - Production |
| QZ128 | Q | A268016 | A268016, PAWS 61 - Supplier Dispostion of Nonconforming Material |
| QZ13 | Q | SMP010743U05 | SMP010743U05, Product Assurance Quality Requirements (PAQR) for PBCS Coupling and Seal - Updated |
| QZ131 | Q | A268035 | A268035, PAWS 67 - Tool Control |
| QZ132 | Q | A268043 | A268043, PAWS 77 - Protective Dust Covers |
| QZ134 | Q | A268046 | A268046, PAWS 80 - Development Material Review Authority - Support Equipment Suppliers |
| QZ136 | Q | A268055 | A268055, PAWS 89 - Serialization of Lockheed Procured Hardware |
| QZ137 | Q | A268057 | A268057, PAWS 92 - Reporting Discrepant Conditions of Material Furnished by Lockheed/Government or Procured from Lockheed Directed Source(s). (Includes Assemblies, Components, Parts, Raw Material) |
| QZ138 | Q | A268061 | A268061, PAWS 18 - Proofing Data - Ordnance Devices |
| QZ139 | Q | A268101 | A268101, PAWS 2 - Reliability Program Plan (RPP) |
| QZ14 | Q | SMP010746U05 | SMP010746U05, Product Assurance Quality Requirements (PAQR) for Castings & Forgings - Updated |
| QZ140 | Q | A268104 | A268104, PAWS 5 - Reliability Prediction Analysis Report Electrical (RPARE) |
| QZ141 | Q | A268108 | A268108, PAWS 9 - Government Industry Data Exchange Program (GIDEP) |
| QZ142 | Q | A268110 | A268110, PAWS 12 - Failure Verification, Diagnosis, and Corrective Action (Hardware Returned to Supplier) |
| QZ143 | Q | A268111 | A268111, PAWS 13 - Phase I Proofing of Supplier Test Stations Used for Acceptance of Hardware |
| QZ144 | Q | A268112 | A268112, PAWS 14 - Phase I and Phase II Proofing of Supplier Test Stations Used for Acceptance of Hardware |
| QZ145 | Q | A268113 | A268113, PAWS 16 - Test Station Service Equipment Logs |
| QZ146 | Q | A268114 | A268114, PAWS 19 - Supplier Special Tooling Requirements |
| QZ147 | Q | A268115 | A268115, PAWS 20 - Traceability of Raw Materials in Serialized Hardware Items |
| QZ148 | Q | A268117 | A268117, PAWS 26 - Limited Life Items and Limited Shelf Life Materials |
| QZ149 | Q | A268118 | A268118, PAWS 27 - Traceability and Serialization Control |
| QZ15 | Q | SMP010780U04 | SMP010780U04, PRINTED CIRCUIT BOARDS--FIRST ARTICLE INSPECTION AND PRODUCT LOT ACCEPTANCE |
| QZ150 | Q | A268120 | A268120, PAWS 29 - Process & Material Change Control |
| QZ151 | Q | A268124 | A268124, PAWS 45 - Production Test and Inspection Plan (PTIP) |
| QZ152 | Q | A268126 | A268126, PAWS 52D Instructions to Suppliers for Preparation of FBM FAI Forms<br>Changes at the supplier that may require a new FAI be performed:<br>1) Change to supplier location or facilities.<br>2) Change to process, or design.<br>3) Two year or more break of production.<br>4) Plant shutdown or labor strike exceeding 90 days.<br>The supplier shall notify in writing the SCA of any circumstances identified above which may necessitate a new FAI by submitting a Vendor Request for Information or Change (VRIC) in accordance with |

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| | | | LMSSC/A689426. The supplier must not produce any production hardware until the LMSSC response has been issued. |
| QZ153 | Q | A268127 | A268127, PAWS 65 - Traceability/Lot Control Records (Functional Piece Parts) |
| QZ154 | Q | A268128 | A268128, PAWS 75 - Operating Time/Cycle Record (OT/CR) |
| QZ155 | Q | A268130 | A268130, PAWS 93 - Failure Modes and Effects Analysis (FMEA) |
| QZ156 | Q | A268132 | A268132, PAWS 32 - Traceability of Raw Materials in Non-Serialized Hardware Items |
| QZ157 | Q | A268133 | A268133, PAWS 33 - Reliability Test Data (RTD) for Propulsion and Ordnance Hardware |
| QZ16 | Q | SMP010781U05NC | SMP010781U05NC , Letter of Promulgation and Implementation of LMSSC SMP010781U05 Rev NC, ADDENDUM (EXCEPTIONS) TO LMSSC/ ADDENDUM 2 of D915700 |
| QZ160 | Q | A268137 | A268137, PAWS 47 - Process & Material Change Control in Non-Serialized Items |
| QZ161 | Q | A268140 | A268140, PAWS 30 - Variables Test Data (VTD) |
| QZ162 | Q | A268186 | A268186, Special PAWS - Product Assurance Work Statement - Product Quality Provisions for Suppliers of Ordnance Devices |
| QZ163 | Q | A268191 | A268191, Special PAWS - Product Quality Provisions - Suppliers of Batteries |
| QZ164 | Q | A268198 | A268198, Special PAWS - Supplemental PA Rqmts for Suppliers of MSD Hardware |
| QZ165 | Q | D054159 | D054159, Special Tooling Requirements |
| QZ166 | Q | D057311 | D057311, LOA - Sundstrand Data/LMSC - PA Rqmts for C4 Interlocks Accelerometer PN 3063028 |
| QZ167 | Q | D062101 | D062101, Surface Equipment Welding Procedure Certification and Welder Performance Qualification, Revision C |
| QZ17 | Q | SMP011063U05 | SMP011063U05, ADDENDUM (EXCEPTIONS) TO d915700 FOR APPLICABLE PROCUREMENTS OF TMK RF LINES BETWEEN LOCKHEED MARTIN SPACE SUNNYVALE, CA AND MEGGITT SAFETY SYSTEMS, SIMI VALLEY, CA. |
| QZ170 | Q | D068737 | D068737, RF Termination Unit -– PAQR |
| QZ171 | Q | D101595 | D101595, Checklist for Subcontractor Requests for Waiver Authorization |
| QZ172 | Q | D101597 | D101597, Supplier and Waiver Information Requirements/Subcontractor Quality Assurance Rqmts |
| QZ173 | Q | D123320 | D123320, Subcontractor Applications for Authorization to Process Waiver Requests - Tracticl Programs |
| QZ174 | Q | D274806 | D274806, Checklist for Program Phases of Product Qual Program Rqmts |
| QZ179 | Q | D274835 | D274835, Special PAWS - Product Quality Provision for Suppliers of Propulsion Devices |
| QZ18 | Q | SMP012700U05 | SMP012700U05, Letter of Agreement Between Lockheed Missiles & Space Company and SPF-21 Pertaining to the Intent of the Applicability Statement in STPMs Based on T9001B-27-01 Requirements |
| QZ180 | Q | D274836 | D274836, Checklist for Program Phases - Product Quality Program Rqmts for MSD Suppliers of Solid Propellant Devices |
| QZ182 | Q | D274877 | D274877, Instructions to Suppliers for Prepartation of the Product Assurance Action Report (Form 3008B-1) and Continuation Form 3000A |
| QZ183 | Q | D274878 | D274878, PAWS 91 - MSD Composite Materials, Processing and Testing Requirements |
| QZ185 | Q | D370249 | D370249, Memo of Agreement (LMSC/SPL) "Development Material Review- Support Equipment Suppliers |
| QZ186 | Q | D370288 | D370288, LOA - LMSC/Sundstrand Aviation for SPL 104 |
| QZ188 | Q | D370453 | D370453, LOA - Procurement Rqmts Teledyne Wah Chang |
| QZ189 | Q | D433491 | D433491, LOA - LMSC/ITT Cannon - Clarification, Interpretation and Agreements of 24 & 25 Jul '75 |
| QZ191 | Q | D514813 | D514813, Special Inspection Checklist for Acceptance of PSE/SSE |
| QZ192 | Q | D567650 | D567650, Production Assessment Test (PAT) Program I PAAR |

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| QZ193 | Q | D598100 | D598100, PAWS 95 - Supplier Traceability/Acceptance Record (Star Form) |
| QZ194 | Q | D598137 | D598137, LOA - LMSC and Atlantic Research Corp - Procurement Rqmts PBCS Gas Gen PN 3065496 |
| QZ196 | Q | D598152 | D598152, Addendum 1 to D274812B - Record Retention & LMSC Disposition of Supplier Data at Term of Contract |
| QZ197 | Q | D598154 | D598154, Addendum1 to D274866 - Record Retention & LMSC Disposition of Supplier Data at Term of Contract |
| QZ200 | Q | D598179 | D598179, LOA - LMSC Ford Aerospace and Communications Corp. (FACC) Newport, CA - Pertaining to Procurement Rqmts for C4 Integrated |
| QZ201 | Q | D598182 | D598182, Trident II - Subcontractor Technical Management Rqmts & Controls Plan |
| QZ202 | Q | D598201 | D598201, Criteria for Subcontractor Production Readiness |
| QZ204 | Q | D824156 | LMSSC D824156, Requirements for EEE Devices 8436 (including Addendum 1) applies. |
| QZ206 | Q | D824157 | D824157, PA Quality Requirements (PAQR) for EEE Devices |
| QZ207 | Q | D824158-01 | D824158-01, DRD - FTS Linear Microcircuits |
| QZ208 | Q | D824158-02 | D824158-02, DRD - FTS CMOS Integrated Circuits |
| QZ209 | Q | D824158-03 | D824158-03, DRD - Linear Microcircuits |
| QZ21 | Q | SMP010817U04 | SMP010817U04, ADDENDUM (EXCEPTIONS) TO F120689, APPLICABLE TO CONTRACTS BETWEEN LOCKHEED MARTIN SPACE AND FIBER INNOVATIONS, INC. |
| QZ210 | Q | D824158-04 | D824158-04, Large Scale Integration (LSI) CGA |
| QZ211 | Q | D824158-07 | D824158-07, DRD C & W Transistors, SCR Thyristors, Pin Diode |
| QZ212 | Q | D824158-10 | D824158-10, DRD - Special Pkg Pwr Transistors & Diodes |
| QZ213 | Q | D824158-11 | D824158-11, DRD - Axial Lead Diodes |
| QZ214 | Q | D824158-12 | D824158-12, DRD - Bridge Rectifiers |
| QZ215 | Q | D824158-13 | D824158-13, DRD - Diode Array |
| QZ216 | Q | D824158-14 | D824158-14, DRD - FTS RF Mixer Assembly |
| QZ217 | Q | D824158-16 | D824158-16, DRD - Quartz Crystal |
| QZ218 | Q | D824158-17 | D824158-17, DRD - Filters |
| QZ219 | Q | D824158-18 | D824158-18, DRD - FTS Transformers & Inductors |
| QZ220 | Q | D824158-19 | D824158-19, DRD - Relays |
| QZ221 | Q | D824158-20 | D824158-20, DRD - Resistor Network |
| QZ222 | Q | D824158-21 | D824158-21, DRD - Resistors |
| QZ223 | Q | D824158-22 | D824158-22, DRD - VSLI Command Sequencer |
| QZ224 | Q | D824158-24 | D824158-24, DRD - Transformers & Inductors |
| QZ225 | Q | D824158-25 | D824158-25, DRD - FTS Thermistors |
| QZ226 | Q | D824158-27 | D824158-27, DRD - Capacitors |
| QZ227 | Q | D824158-29 | D824158-29, DRD - RF Termination Unit (EMC) |
| QZ228 | Q | D824158-30 | D824158-30, DRD - Hybrid, Optically Coupled Isolator |
| QZ229 | Q | D824158-32 | D824158-32, DRD - Special Package Power Transistor & Diode |
| QZ23 | Q | F120009 | F120009, Product Assurance Program Plan (PAPP) for LMSC Field Operations at Boost Propulsion Subcontractor Facilities |
| QZ230 | Q | D824158-33 | D824158-33, DRD - Memory & Linear Microcircuits |
| QZ231 | Q | D824158-34 | D824158-34, DRD - RF Termination (KDI) |

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| QZ232 | Q | D824158-35 | D824158-35, DRD - Quad Fet Switch Driver |
| QZ234 | Q | D900341 | D900341, Technical Program Management Requirements for Trident II Boost Propulsion Subcontracts |
| QZ235 | Q | D900341 CHKLIST | D900341, CHECKLIST - Technical Program Management Requirements Checklist for Trident II Boost Propulsion Follow-On Production |
| QZ237 | Q | D914110 | D914110, LOA - LMSC & Ensign Bickford Co. Pertaining to Procurement Rqmts for Flexible Confined Detonating Cord PN 3063530 Detonating Cord WS 15120 Linear Shaped Charge WS 17888MOU Between Ensign Bickford Aerospace & Defense Company and LMSSC Inspection Stamping at Ensign Bickford Aerospace & Defense Company |
| QZ24 | Q | F120012 | F120012, Product Quality Program Rqmts for Trident I Fleet Ballistic Missile Weapon System Propulsion Subcontractors/Suppliers |
| QZ241 | Q | D915701 | D915701, PA Quality Rqmts for Electronic Components/Subassemblies. |
| QZ244 | Q | D915702 | D915702, PA Quality Requirements for Major Commodities |
| QZ246 | Q | D915703C | D915703C, PA Quality Requirements for Trident II (D5) Connectors |
| QZ248 | Q | D915703-1C | D915703-1C, PA Quality Requirements for G & H PMM Connectors |
| QZ249 | Q | D915704 | D915704, PA Quality Rqmts for Nose Cap & Nose Fairing Manufacture |
| QZ25 | Q | F120014 | F120014, LOA Btwn LMSC & Teledyne Wah-Chang Albany Pertaining to Procurement Rqmts for D5 PBCS Manifold |
| QZ250 | Q | D915705 | D915705, PA Quality Requirements for Trident II Batteries |
| QZ251 | Q | D915706C | D915706C, PA Quality Rqmts for Printed Circuit Boards, Multilayer Boards, Rigid Flex Master Interconnect Board & Flex Cables |
| QZ252 | Q | D915709P | D915709P, PAQR - Black Box Subcontractor Piece Part Rqmts |
| QZ256 | Q | D915711 | D915711, Addendum 2 - to Supplier Tech Program Management LMSC/915710A |
| QZ257 | Q | D915720 | LMSSC D915720, Supplier Technical Program Management (STPM) Document for Test Missile Telemetry & Tracking System (including Addendum 1 and Addendum 2) applies. |
| QZ261 | Q | D915722 | D915722, PA Quality Requirements for Instrumentation Electronic Packages |
| QZ262 | Q | D915723 | D915723, PA Quality Rqmts for Transducers and Instruments |
| QZ265 | Q | D915741B | D915741B, PA Quality Rqmts for MSD Hardware |
| QZ266 | Q | D915742 | D915742, PA Quality Rqmts for Trident II (D5) Ordnance Hardware |
| QZ267 | Q | D915743 | D915743, PA Quality Rqmts for PBCS Coupling and Seal |
| QZ268 | Q | D915744 | D915744, PA Quality Rqmts for Northrop EMD D5 SACE |
| QZ269 | Q | D915746A | D915746A, PA Quality Rqmts for Casting & Forgings |
| QZ27 | Q | F120027 | F120027, Product Assurance Quality Rqmts for Calibration/Verification Maintenance of Test Equipment |
| QZ270 | Q | D915746B | D915746B, PA Quality Rqmts for Castings & Forgings (Mk5 Reentry Body Only) |
| QZ273 | Q | D920222 | D920222, PA Quality Rqmts for Reentry Body Trident II |
| QZ274 | Q | D941121 | D941121, Checklist for Subcontractor Request for Waiver Authorization & Waiver Information Rqmts |
| QZ275 | Q | D941122 | D941122, Memo of Agreement - Material Review Authority - D5 Special Test Equipment Suppliers |
| QZ276 | Q | D941151 | D941151, Memo of Understanding D915710A |
| QZ277 | Q | D941153 | D941153, Memo of Understanding - Production Readiness & Program Management Rqmts |
| QZ278 | Q | D941154 | D941154, Memo of Agreement - Documenting/Dispositioning Non- |
| QZ279 | Q | D941155 | D941155, MOU Btwn LMSC and Loral Data System/Conic Pertaining to Procurement Rqmts for Telemetry Transmitters & Destruct RFU(s) |

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| QZ28 | Q | F120030 | F120030, Product Assurance Quality Requirements for Production Software Control |
| QZ280 | Q | D941158 | D941158, Information & Clarification for Phase I and Phase II Proofing of Supplier Test Station |
| QZ281 | Q | D941159 | D941159, Memo of Agreement Btwn LMSC and Ford Aerospace Communication Corp. Pertaining to Procurement Rqmts for LMSC D915710A STPM Rqmts |
| QZ282 | Q | D941160 | D941160, Memo of Agreement Btwn LMSC and ITT Cannon electric Co., Pertaining to Acceptance Testing of A3TK Umbilical Plug Refurbishment |
| QZ283 | Q | D941161 | D941161, Memo of Agreement Btwn LMSC/MSD and Kaman Instrumentation Corp. |
| QZ284 | Q | D941164 | D941164, Memo of Understanding D5 Supplier Direct Ship Hardware List |
| QZ285 | Q | D941165 | D941165, Direct Ship of Missile Hardware to SWFLANT Plan |
| QZ286 | Q | D988446CB AD | D988446BC, Addendum (Exceptions) to LMSC/D824156C Applicable to Contracts Btwn LMSC MSD & Genicom Corp., Pertaining to STPM Rqmts for Trident II (D5) Relays |
| QZ287 | Q | D990249B | D990249B, Memo of Understanding Btwn LMSC and ARC Pertaining to Procurement Rqmts for D5 Nose Fairing Jettison Motor PBCS Gas Generator |
| QZ30 | Q | F120040 | F120040, Letter of Agreement Btwn LMSC & D5 Multilayer Board Suppliers Pertaining to STPM Rqmts for Missile System Hardware |
| QZ300 | Q | D824158-15 | D824158-15, DRD - FTS Filter Crystal Assembly |
| QZ302 | Q | SMP010787U06 | SMP010787U06, LOA between LM and IRC (Division of TRW) pertaining to STPM D824156 and STPM SMP010760U05 |
| QZ303 | Q | SMP010707U05 | SMP010707U05, PAQR for G&H PMM Connectors (changes from D915703-1, Rev C) |
| QZ305 | Q | SMP010704U05A | SMP010704U05A, Product Assurance Quality Requirements for Nose Cap and Nose Fairing Manufacture – Updated. |
| QZ306 | Q | SMP010761U05 | SMP010761U05, Product Assurance Quality Requirements for Electrical, Electronic and Electro-Mechanical (EEE) Devices – Updated |
| QZ307 | Q | SMP010782U05-24 | SMP010782U05-24, Detail Requirements Document for Inductors and Transformers for Teident II (D5) Program – Updated |
| QZ308 | Q | SMP010782U05-21 | SMP010782U05-21, Detail Requirements Document for Resistors for Trident II (D5) Program - Updated |
| QZ309 | Q | SMP010782U05-19 | SMP010782U05-19, Detail Requirements Document (DRD) for Relays Trident II (D5) Program - Updated |
| QZ31 | Q | F120054 | F120054, PAWS 49 - Using Supplier Use and Control of Pre-Released Hardware |
| QZ310 | Q | SMP010789U06 | SMP010789U06 MOU between LMSSC & OECO pertaining to STPM SMP010782U05-24 |
| QZ311 | Q | SMP010790U06 | SMP010790U06 MOU between LMSSC & OECO pertaining to PAQR SMP010761U05 & DRD SMP010782U05-24 |
| QZ316 | Q | SMP010783U05A | SMP010783U05A – Memorandum of Understanding between LMSSC-MSO and Hamilton Sundstrand Aerospace applies. |
| QZ317 | Q | SMP010708U07 | SMP010708U07 – Letter of Agreement pertaining to Supplier Technical Program Management requirements (STPM) D915720, between Lockheed Martin Space AND Paine Electronics LLC (Paine). |
| QZ318 | Q | SMP010713U08 | SMP010713U08 – Letter of Agreement between Lockheed Martin Space and Excelitas Technologies pertaining to quality verification supplier technical program management requirements (STPM) for the D5 high voltage detonator |
| QZ319 | Q | SMP010786U06 | SMP010786U06 - Product Assurance Quality Rqmts for Calibration/Verification Maintenance of Test Equipment |
| QZ32 | Q | F120055 | F120055, PAWS 48 - Manufacturing Supplier Control of Pre-Released Hardware |

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|---|---|---|---|
| QZ323 | Q | SMP010716U09A | SMP010716U09A - Subcontractor Procurement Requirements, for D5 Life Extension Heritage Resistor, Magnetics, Relays Selective Suppliers. |
| QZ33 | Q | F120056 | F120056, PAWS 94 - Advanced Procurement Program LMSC Product Assurance Source Surveillance |
| QZ34 | Q | F120058 | F120058, PAWS 42 - Functional Test Requirements for Support Equipment (SE) Spare Parts |
| QZ35 | Q | F120060 | F120060, PA Quality Rqmts for Reliability Test Data Failure Data Corrective Action Reporting |
| QZ37 | Q | F120062 | F120062, PAWS 8 - Reliability Test Data- Failure Data and Corrective Action Reporting |
| QZ38 | Q | F120063 | F120063, PAWS 35 - Product Assurance Requirements for Original Weld/Braze Provisions and Revisions |
| QZ39 | Q | F120064 | F120064, PAWS 44 - Product Assurance Requirements for "Services" Subcontracts for Maintenance of LMSC Government Funded or Furnished Test Equipment |
| QZ40 | Q | F120065 | F120065, PAWS 51H - Lockheed (LMSSC) Source Acceptance |
| QZ41 | Q | F120066 | F120066, PAWS 88H - Lockheed (LMSSC) Source Verification |
| QZ42 | Q | F120068 | F120068, Letter of Agreement Btwn LMSC & SPL -41 Pertaining to Approval of Letter of Agreement Btwn LMSC & D 5 Hardware Suppliers |
| QZ43 | Q | F120079 | F120079, Advanced Procurement (AP) Surveillance Test Program For Electrical Devices |
| QZ47 | Q | F120096 | F120096, Storage & Surveillance Plan for Pyrotechnic Materials for use in MK4 Thruster Cartridge PN 3065314 and MK4 Low Voltage Initiator PN 3065313. Supplier Location: Hi-Shear |
| QZ48 | Q | F120100 | F120100, Storage & Surveillance Plan for Pyrotechnic Materials and Inertial Initiator. Supplier Location: Pacific Scientific |
| QZ49 | Q | F120113 | F120113, PAWS 100 - Supplement for MIL-I-45208 for MSD Suppliers |
| QZ50 | Q | F120120 | F120120, PA Quality Rqmts for First Article Inspection |
| QZ51 | Q | F120129 | F120129, Memo of Understanding- Process Change Control |
| QZ52 | Q | F120130 | F120130, Letter of Agreement for Clarification of STPM D915700D "Identification and Segregation of Nonconforming Hardware" |
| QZ53 | Q | F120133 | F120133, Storage & Surveillance Plan for Turbine Wheel Forgings. Supplier Location: Hamilton Sundstrand Corporation |
| QZ54 | Q | F120135 | F120135, Storage & Surveillance Plan for IVA Components, Top Plate, Seat, and Insulator. Supplier Location: Lockheed Martin Maritime Systems & Sensors (LMS2) |
| QZ55 | Q | F120136 | F120136, LOA - LMSC & Dynaco West Corp., Pertaining to STPM Rqmts for Multilayer Boards (Printed Wiring Boards) |
| QZ56 | Q | F120139 | F120139, Addendum (Exceptions) to LMSC D824156C Applicable to Contracts Btwn LMSC MSD & Sprague Electric Co. Pertaining to STPM Rqmts for Trident II (D5) Capacitors |
| QZ58 | Q | F120143 | F120143, LOA Btwn LMSC & SPL-44, Checklisting STPM Document LMSC/D915750, Pertaining to D5 Missile Test & Readiness Equipment (MTRE) Follow-On Effort |
| QZ59 | Q | F120159 | F120159, Addendum (Exceptions) to D824156C Applicable to Contracts Btwn LMSC MSD & Sertech Labs Pertaining to STPM Rqmts for Trident II (D5) Flight Termination System Integrated Circuits |
| QZ60 | Q | F120160 | F120160, Addendum (Exceptions) to LMSC/D824156C Applicable to Contracts Btwn LMSC MSD & Harris Semiconductor Pertaining to STPM Rqmts for Trident II (D5) Integrated Circuits |
| QZ61 | Q | F120161 | F120161, Letter of Agreement Between LMMS & Martin Marietta, Aero & Naval Systems Checklisting D915700 & D915704 |
| QZ62 | Q | F120162 | F120162, Addendum (Exceptions) to LMSC MSD & Raytheon Semiconductor Pertaining to STPM Rqmts for Trident II (D5) Configurable Gate Arrays |

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|---|---|---|---|
| QZ63 | Q | F120164 | F120164, LOA Btwn LMSC & PMO, Sunnyvale Pertaining to Evaluating Compliance to Calibration Interval Rqmts |
| QZ64 | Q | F120168 | F120168, Addendum (Exceptions) to LMSC/D824156C Applicable to Contracts Btwn LMSC MSD & Leach Corp for Trident II (D5) Relays |
| QZ65 | Q | F120169 | F120169, Addendum (Exceptions) to LMSC/D824156C Applicable to Contracts Btwn LMSC & Hadley Co. Pertaining to STPM Rqmts for Trident II (D5) Transformers & Inductors |
| QZ66 | Q | F120171 | F120171, Letter of Agreement Btwn LMSC & SPL Pertaining to MSD PA Review & Approval of Blanket Purchase Agreements for the Consignment of Spares & Consoles to LMSC Suppliers |
| QZ69 | Q | F120186 | F120186, Storage & Surveillance Plan for PBCS Gas Generator Materials and Nose Fairing Jettison Motor (NFJM) Material. Supplier Location: Aerojet-General Corporation |
| QZ72 | Q | F120192 | F120192, LOA Between LMSSC and Aerojet Pertaining to Qualification Verification (STPM) for Post Boost Control Generators |
| QZ73 | Q | F120193 | F120193, Addendum (Exceptions) to LMSC/D824156C applicable to Contracts Btwn LMSC MSD & Mawell Sierra Labs Pertaining to STPM Rqmts for Trident II (D5) Low Pass Filters |
| QZ76 | Q | F120199 | F120199, Addendum (Exceptions) to LMSC/D824156C applicable to Contracts Btwn LMSC MSD & Angstrohmn Precision, Inc., Pertaining to STPM Rqmts for Trident II (D5) Resistors |
| QZ77 | Q | F120200 | F120200, PA Quality Rqmts (PAQR) for Linear, Single-Axis Accelerometers |
| QZ78 | Q | F120201 | F120201, LOA - LMSSC & ATI Wah Chang pertaining to procurement requirements for D5 PBCS Manifold |
| QZ79 | Q | F120204 | F120204, Letter of Agreement Btwn LMSC & Moog, Inc., Seneca & Jamieson Rds., Pertaining to Quality Verification (STPM) Rqmts for Servoactuator Assemblies |
| QZ80 | Q | F120215 | F120215, Memo of Understanding Btwn LMSC & Loral Aeronutronic Pertaining to Procurement Rqmts for Loral Aeronutronic Integrated Valve Assem. and Sequencer Valve Assem. |
| QZ81 | Q | F120218 | F120218, Storage & Surveillance Plan for TVC Gas Generator Materials. Supplier Location: ATK Alliant Systems Co. LLC |
| QZ82 | Q | F120219 | F120219, Storage & Surveillance Plan for Propellant. Supplier Location: Crane Division (Naval Surface Warfare Center) |
| QZ83 | Q | F120220 | F120220, Storage & Surveillance Plan for Coils. Supplier Location: Tyco Electronics Corporation |
| QZ84 | Q | F120221 | F120221, STPM requirements for Reentry Body Inertial Measurement Unit (RIMU) |
| QZ85 | Q | F120223 | F120223, Addendum (exceptions) to LMSC/D824156 applicable to contracts between LMSC and Dale Electronics, Inc., Columbus, NE |
| QZ86 | Q | F120224 | F120224, Addendum (exceptions) to LMSC/D824125 applicable to contracts between LMSC and Croven Crystals, LTD |
| QZ87 | Q | F120233 | F120233, LOA between LMSC and Sundstrand Aerospace Rockford for first and second stage gas hydraulic assemblies |
| QZ88 | Q | F120234 | F120234, Storage & Surveillance Plan for Connector Castings. Supplier Location: Smith Tubular Systems |
| QZ90 | Q | F120246 | F120246, Storage & Surveillance Plan for Tubes. Supplier Location: Ensign Bickford |
| QZ91 | Q | F120247 | F120247, Storage & Surveillance Plan for Op Amp Chip. Supplier Location: Paine Corporation |
| QZ92 | Q | F120248 | F120248, LOA between LMSC and Honeywell AlliedSignal Inc., Aerospace Systems and Equipment for Third Stage Hydraulic Assemblies |
| QZ93 | Q | F120250 | F120250, LOA between LMSC and AlliedSignal Aerospace, Redmond WA |
| QZ94 | Q | F120252 | F120252, PAWS 101, Requalification Considerations for Trident II Program |

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|---|---|---|---|
| QZ95 | Q | F120262 | F120262, Memo of Understanding, Sunstrand Rockford and LMMS Inspection Requirements Sunstrand Machine Facilities |
| QZ96 | Q | F120264 | F120264, Storage & Surveillance Plan for Flexible Linear Shaped Charge (FLSC). Supplier Location: Crane Division (Naval Surface Warfare Center) |
| QZ99 | Q | F120356 | F120356, Storage & Surveillance Plan for Linear Variable Differential Transducers. Supplier Location: Moog, Inc. |

# REVISION LOG

| Date | Change | Details |
|---|---|---|
| 10/17/2006 | Added: QZ299 | SMP010700U04 – FBM program specific |
| | Added: QD4K6 | Test Facility Requirements – requested by Palo Alto, CA |
| | Added: QTC5 | Authorized Dealer Dist – OEM – requested by Special Programs Sunnyvale, CA |
| | Added: QZ304 | SMP012701U05 – FBM program specific |
| | Added: QZ305 | SMP010704U05A – FBM program specific |
| | Added: QZ306 | SMP010761U05 – FBM program specific |
| | Added: QZ307 | SMP010782U05-24 – FBM program specific |
| | Added: QZ308 | SMP010782U05-21 – FBM program specific |
| | Added: QZ309 | SMP 010782U05-19 – FBM program specific |
| | Updated: QN5 | Updated F120061 to Rev E, updated F120172 to Rev C |
| | Updated: QT8 | Updated to reflect Parts, Materials & Processes |
| | Updated: QASLA | Updated to reflect PMP |
| | Updated: QZ241 | Updated to reflect D915701 instead of D915700 |
| | Edited: QZ94 | Previously was not a complete sentence – FBM program specific |
| 11/16/2006 | Added: QT4E | Per FBM Request |
| | Added: QZ310 | SMP010789U06 – FBM program specific |
| | Added: QZ311 | SMP010790U06 – FBM program specific |
| | Updated: QYX | Per FBM Request |
| 11/21/2006 | Updated: QYX | Remove “onsite validation required” – FBM request |
| | Updated: QYW | Removed “onsite validation required” and addede “Third party registration by an accredited registrar will be accepted. Contractor declaring system compliance to AS9003 with no formal accredited registrar will be reviewed.” – FBM request |
| | Updated: QZ287 | Updated to reflect Rev B – FBM request |
| | Updated: QASLB | Added reference to PMP Database |
| 1/31/2007 | Added: QZ312, QZ313, QZ314, QZ315 | Per FBM Request |
| | Added: Q7Z | Lot Date Code 10 years |
| 3/28/2007 | Updated: QZ237 | Per FBM Request |
| | Updated QTC2 | Per R.Ormond (PQAR issue) |
| | Updated QZ286 | Updated to reflect Rev C – per FBM request |
| | Updated: QZ109 | Corrected document number – per FBM request |
| 6/11/2007 | Added QTM5 | Rejected Material Resubmission – per FBM request |
| | Added QZ316 | SMP010783U05A – FBM program specific |
| | Added QTM6 | Mfg’d Articles Raw Material Test Reports – per FBM request |

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|---|---|---|
| | Updated: QZ92 | Per FBM Request |
| 6/14/2007 | Edited: QCF | Edit to wording per FBM Request |
| 6/28/2007 | Edited: QCF | Returned to original wording |
| 8/20/2007 | Update: QTP | Removed reference to Addendum 1 and 2 |
| 10/31/2007 | Added: QTD2 | Per FBM Request |
| 1/31/2008 | Added: QZ317 | SMP010708U07 – FBM program specific |
| 2/21/2008 | Added: QT12 | Seller Rating Test Documentation Twelve Years - per Special Programs Request |
| | Edited: Q0W | Changed the word "record" to "mark/identify" - per Central Procurement Request |
| 7/28/2008 | Added: QZ318 | SMP010713U08 – FBM program specific |
| | Added: QA5 | Certification of Conformance Required By LMSSC |
| 9/24/2008 | Added: QTC6 | Counterfeit Part Avoidance |
| 12/15/2008 | Added: QWGC | Work Group Collaboration (Online data submittal) |
| 2/13/2009 | Added QZ319 | Product Assurance Quality RQMTS For Calibration/Verification Management of Test Equipment (Reflect the creation of SMP010786U06) |
| | Edited: QB4 | Removed "Functional" From Code Text |
| 3/9/2009 | Edited: QZ152 | Title correction |
| 3/17/2009 | Edited: QTP | Edited to align with SAP text |
| 4/7/2009 | Edited: QN5 | Correction to remove previous revision letters |
| 4/20/2009 | Added: QDPA | DPA Identifier Code |
| 4/22/2009 | Edited: QTP | Modification per FBM request |
| 6/3/2009 | Removed: QD12 | Old SCID code used for the TITAN program; Have been directed by customer to not apply code. |
| | Removed: QASL | Series codes; QASL codes were transitioned to IASL codes back in 2007 and also only applied for internal use. |
| | Added: Q6Z7 | Modification of Q6Z from a 4 to 7 year requirement in support of SBIRS contractual requirements. |
| | Edited: QTC6 | (Counterfeit components) Deleted the word material from the code to further address scope of intended application. |
| 6/9/2009 | Added: QNOWGC | Prohibited Data Submittals |
| | Added: QSTEU | STEU Packaging |
| 6/30/2009 | Updated: Q32 | Updated to address the marking of qualification hardware |
| 8/24/2009 | Edited: QA287 | Typo correction |
| 9/14/2009 | Removed: QD23, Q28A, Q28B | Codes deactivated; Supporting document M64-119 has been cancelled |
| | Added: QZ320 | SMP010762U08 – FBM Program Specific |
| | Added: QZ321 | SMP010711U09 – FBM Program Specific |
| | Added: QVT6 | To reflect regulatory requirements for 6 year record retention |
| 9/22/2009 | Added: QA9 | LMSSC PQA Notification of Supplier Changes |

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|---|---|---|
| | Added: QA10 | CLASS 1 or CLASS 2 Changes; GPS3 Program Specific |
| | Added: QSQAP | QPS3 Quality Assurance Plan; GPS3 Program Specific |
| | Edited: QAQC09 | Included approval requirements for Calibration System. |
| 10/5/2009 | Added: QT4F | Counterfeit EEE Part Avoidance, Detection, Mitigation, Disposition (SAE AS5553) |
| 2/16/2010 | Edited: QZ72, QZ318 | Edited clause text to align with document text |
| | Edited: QZ109 | Edited clause title and text to align with document text |
| 5/4/2010 | Added: QM8 | 3GPS-RQ-09-0080 and 3GPS-RQ-09-0081 for GPS111 for PWB |
| | Added: QB12 | Certificate of Compliance for Subcontract Tin Mitigation |
| | Updated: QA7 | Requirement clarification |
| 5/11/2010 | Edited: Q0W | Minor language edits |
| 7/19/2010 | Removed: QDV | Code Deactivated |
| 7/26/2010 | Added: QLMPC | LM Supplied Paint Coupon Requirements |
| 11/16/2010 | Added: QTC7 | LMSSC Procured Parts/Materials Counterfeit Avoidance |
| | Added: QT4A | Quality System Requirements (SAE AS9120) |
| | Edited: QTC6 | Clarified Electronic (EEE) Parts |
| | Edited: QNOWGC | Clarified method of delivery of documentation |
| 1/24/2011 | Edited: QLM | Typo correction |
| 1/28/2011 | Edited: QZ152 | Title Change |
| 2/21/2011 | Removed: QAQC32, QB8, QBN, QBQ, QC3, QD6, QD7, QD11, QE6, QE8, QET, QER, QES, QEU, QEW, QEX, QF5, QF6, QF8, QN5, QYJ, QYN, QYP, QYQ, QYU, QYR, QYV, QYZ, QZ2, QZ26, QZ29, QZ36, QZ67, QZ68, QZ70, QZ114, QZ115, QZ116, QZ117, QZ119, QZ122A, QZ123, QZ124, QZ129, QZ130, QZ133, QZ135, QZ158, QZ159, QZ168, QZ169, QZ175, QZ176, QZ177, QZ178, QZ198, QZ199, QZ203, QZ205, QZ233, QZ236, QZ239, QZ240, QZ242, QZ243, QZ245, QZ247, QZ254, QZ255, QZ258, QZ259, QZ264, QZ272, QZ288, QZ289, QZ290, QZ291, QZ292, QZ293, QZ294, QZ295, QZ296, QZ297, QZ298, QZ301 | Codes Deactivated |
| | Added: QZ322 | SMP01720U11 – FBM Specific |
| | Added: QPMT | LM861793 Test Report AEHF Specific |
| 3/3/2011 | Edited: QLM | Edited to add clarification |

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|---|---|---|
| 3/8/2011 | Edited: QZ204, QZ238, QZ241, QZ253, QZ257, QZ263, QZ271 | Minor FBM Code edits |
| 3/9/2011 | Removed: QZ184, QZ190, QZ195 | Codes Deactivated |
| 5/3/2011 | Removed: QZ44, QZ45, QZ46, QZ57, QZ71, QZ74, QZ75, QZ89, QZ97, QZ98, QZ102 | Codes Deactivated |
| 7/22/2011 | Removed: QTS | Replaced with QQTS |
| | Added: QQTS | Pind Inspection Required |
| | Added: QA2C | Orion Government Source Inspection |
| | Added: QVP | THAAD Quality Document 1A68327 |
| | Added: QVQ | THAAD Quality document 1A68314 |
| 8/11/2011 | Deleted deactivated yellow code column | |
| | Added: QB13 | Ceramic Chip Delamination Test |
| | Edited: QXH | (Non-flight Material) to include EEE part marking when applicable |
| 10/26/2011 | Added: QD4K3 | Quality Management System ANSI/NCSL Z540-1 |
| | Edited: QAQC17 | 100% Attributes |
| | Edited: QD26 | Edited for simplification |
| 11/8/2011 | Removed: QW1, QTZ3, QTZ4, QWR, QWS | Codes Deactivated due to nonuse |
| | Updated: QB11 | Updated for additional clarification - added phrase "by weight" |
| 12/12/2011 | Added: Newton Commercial Codes | |
| | Edited: QD26 | Ordnance Requirements - Competent Authority Docf |
| 1/5/2012 | Added: QCAV | Characteristics Acct. Verification (CAV) |
| 1/26/2012 | Edited: QTC2 | Typo edit |
| 5/10/2012 | Updated: QM8 | Updated for additional clarification |
| 7/30/2012 | Updated: QB4 | Update for electronic approval methods |
| 9/12/2012 | Added: QZ323 | SMP010716U09A – FBM Program Specific |
| 10/9/2012 | Added: QQLS, QQS5, QQS5C, QQT8, QQTC5, QQVX, QQWGC, QQWT, QQZ1, QQZ4, QQZ5, QQZ9, QQZ11, QQZ19, QQZ20, QQZ22, QQZ111, QQZ181, QQZ304 | Duplicates to accommodate required changes for P2P implementation |
| | Added: QAQC14A | Duplicate Q-Code for use in P2P production orders (short text only items) |
| 11/7/2012 | Edited: QQZ11 | Revision status removed |
| 1/31/2013 | Added: Q2Z | FBM Supplier Non-Conformance Requirement Instructions (FBM VRIC Process) |
| 2/7/2013 | Edited: QPMT | Quality Requirements - LM8617893 for PROHIB. MTLS |
| 2/20/2013 | Updated: QD4K3 | Part 1/Part 2 Elaboration and change from rev - to rev a |

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|---|---|---|
| 3/8/2013 | Added: QQ32A | *Added duplicate codes to accommodate required changes for P2P Use Replacement for Q32A |
| | Added: QTC2A | PreCap Inspection - for use with non-material procurement activity (similar to QAQC14A) |
| 3/19/2013 | Added: QV15 | THAAD First Article Inspection – (QAQC15 with additional text regarding notification) |
| | Added: QD4K7 | Quality Program Requirements (ANSI/NCSL Z540.3) |
| 4/18/2013 | Updated: QV15 | FAI Production Lapse Clarification |
| 5/21/2013 | Updated: QPMT | Removed CoC submittal to a source inspector |
| 6/5/2013 | Updated: QZ152 | Additional clarification regarding A268126 requirements for FBM |
| 7/21/2013 | Added: QQZ6 | Duplicate text for QZ6 to correct P2P setup error |
| 8/26/2013 | Edited: QZ99 | Replaced the word "transformer" with "transducers" for FBM |
| 10/9/2013 | Removed: Commercial Q-Codes | No longer in use by Space Systems |
| 10/25/2013 | Edited: QQWGC | Added referral to EDSS (Electronic Data Supplier Submittal) |
| 12/12/2013 | Removed: QTC7 | Code Deactivated |
| | Updated: QTC6 | Counterfeit Q-Code now applies to all materials for customer deliverables |
| 2/11/2014 | Removed: QTC4 | Code Deactivated |
| 3/7/2014 | Updated: QB4, QAQC06 | Additional requirement clarification |
| 3/12/2014 | Added: QBRIN1, QBRIN2 | Orion program specific testing requirements |
| 3/26/2014 | Added: QQZ3 | Duplicate text for QZ3 to correct P2P setup error |
| 4/7/2014 | Added: QQD4K7 | Duplicate text for QD4K7 to correct P2P setup error |
| 4/14/2014 | Updated: QD13 | Added clarification for objective evidence |
| 4/15/2014 | Added: QQS5A | FOD Q-Code Consolidation |
| 5/15/2014 | Edited: QT4B, QAQC02, QD4A, QD4B, QD4C | Replaced “contractor” or “organization” with “manufacturer” |
| | Edited: QA7 | Replaced approved QMS with approved to AS9003 as a minimum |
| 6/5/2013 | Added: QQMY | Duplicate text for QMY to correct P2P setup error |
| 6/18/2014 | Updated: QA7 | Added clarification |
| 7/21/2014 | Added: QQAQC09, QQD4K6, QQD4K3 | Duplicate text to correct P2P setup error |
| 9/29/2014 | Updated: QB11 | Additional clarification – Now allows a C of C to demonstrate adherence to requirement |
| 4/14/2015 | Added: QQD3 | Duplicate text for QD3 to correct P2P setup error |

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|---|---|---|
| 11/17/2015 | Removed: Q19B, Q37, Q57, QA2C, QA4H, QAQC05, QAQC07, QAQC10, QAQC12, QAQC18, QAQC19, QAQC30, QAQC31, QB12, QCC, QD13, QD15, QD16, QD5, QD8, QGL, QLT, QP3, QQD4K7, QQMY, QQS5, QQS5C, QQT8, QQTC5, QS11, QS5B, QS7, QT4C, QT4F, QTB9, QTC1, QTC3, QTR | Codes Deactivated |
| | Edited: QAQC13 | Updated text to align with the language required by the Acquisition Compliance matrix |
| 9/26/2016 | Removed: QTU | Code Deactivated |
| | Added: QDTS | Dock To Stock Process |
| | Added: QB14 | Supplier Data Sheet Submittal |
| | Added: QQBR | Reduced Dimensional Inspection Report |
| | Updated: QCF | Updated text to include physical and electronic signature |
| | Updated: QAQC08 | Updated text of where contractually required specifications are identified |
| | Updated: QD27 | Updated text to remove reference to DEN 412610 |
| 6/5/2017 | Added: QBRCD | Barcoded Label Requirement |
| | Updated: QS8 | Updated text to include supplier submittal requirements |
| 9/27/2017 | Edited: QT4B, QD4A, QD4B, QD4C, QAQC02 | Updated text to standardize verbiage and clarify substitution QMS certification |
| 1/10/2018 | Added: QPWB3 | PWB Conformance Coupon Inspection - Third Party |
| | Added: QPQBLM | PWB Conformance Coupon Inspection - LMSSC |
| 5/13/2018 | Added: QSP | Special Process Approval and Certification |
| 10/21/2019<br><br>*note-v2 is the same version and was only edited for errors | Removed: Q0H, QN2, QVQ, QAQC22, QPMT, QVS, Q14, QQBR, QVU, Q19A, QSTEU, QQVX, QLMPC, QT5, QM9, QB13, QTC2A, QYW, QBRIN1, QTL, QYX, QBRIN2, QV15, QT4D, QCAV, QVP, QT4E, QB3A, QAQC01, QA7, QAQC08 | Codes deactivated due to lack of use/necessity |
| | Added: QOPR | |
| | Edited: QAQC14A | Title update |
| | Updated document layout to group quality codes by purpose and created change log template | |
| 02/05/2020 | Added: QD13 | Reinstated QD13, Manned Space Flight, per request of the OPOC program. |
| 04/27/2020 | Updated: QBRCD<br>Updated: QSP<br>Updated: QAQC09 | QBRCD updated to include link to step by step usage guide and a reference to Q4M.<br>QSP updated to make reference for suppliers approved to Q4M.<br>QAQC09 updated to replace a superseded calibration system reference. |

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|---|---|---|
| | Updated: QZ320<br>Added: Q4M | QZ320 updated to replace SMP010762U08 with SMP10764U09 (per FBM request)<br>Q4M code added for supplier requirement clarification. Q4M is NOT to be flowed on PO; the sole purpose is to provide information to suppliers that are Q4M approved.<br><br>*An additional update to the doc was made to remove “Systems Company” from Lockheed Martin Space references. |
| 06/01/2020 | Updated: QC2 | QC2 updated to require a minimum 1” font size and placement of time and temperature sensitive label. |
| 07/13/2020 | Updated: QZ299<br>Edited: QOPR | QZ299 updated to remove Rev reference.<br>QOPR edited to QPOR to correct the typo. |
| 08/20/2020 | Updated: QPOR | Updated text to contain Supplier Quality Field Representative instead of QPAR |
| 09/25/2020 | Added QSC | Quality System Changes and Customer Findings |
| 09/30/2020 | Updated: QSC | Updated text to clarify VRIC definition |
| 01/05/2021 | Updated: QZ318 | Updated text, changed Perkin Elmer Opto Electronics to Excelitas Technologies |
| 01/28/2021 | Added: QEDSS | Electronic Data Supplier Submittal |
| | Added: QSPS | Special Process Code for Classified Procurement - Requested by Special Programs |
| 02/24/2021 | Updated: QEDSS | Updated text |
| 03/16/2021 | Updated: QEDSS | Fixed Link |
| 10/06/2021 | Updated: QQAQC09 | Updated text, ANSI/NCSL Z540.3-2006 has been withdrawn |
| 10/27/2021 | Updated: QQB<br>Updated: QM17 | QQB updated to include First Article Inspection, Form 3 information.<br>QM17 updated that shipments with multiple date/lot codes be documented on the PO/subcontract |
| 01/6/2022 | Updated: QSP | Added missing information related to methods of obtaining EXOSTAR/P2P approval.<br>Removed text that was repeated twice within the definition. |
| 03/3/2022 | Updated QB11 | Replaced verbiage “<3% lead (Pb)” with “greater than 97.0% tin” to better align with PMP Note 18361. |
| 06/1/2023<br><br>*note-v2 is the same version and was only edited to correct document date in footer | Added: QGPSGC | GPS Only: Group C Test Review |
| 08/23/2023 | Added Q29<br>Added QPSDPA | Q29: FBM Only Code: Destroyed/Consumed FBM CII Traceable hardware Report Submittal<br>QPSDPA: added code to inform suppliers to pre-ship parts for DPA testing. This supports the process improvement for OET #2500 |

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| 11/16/2023 | Updated: QSP, QSPS<br><br>Updated: QSQAP<br><br>Updated: QAQC14 and QAQC14A<br><br>Updated: QPOR | QSP, QSPS: Added clarification of the requirement for the contractor to review their approvals, QMS/SP, as well as any Subs used for processing. Added links to Exostar help guides. Removed special process definition.<br><br>QSQAP: Added FOP to the end GPS III Subcontract Quality Assurance Plan 3GPS-PN-07-0602 per Program request. Fixed code name from QSQP to QSQAP (refer to revision log)<br><br>QAQC14 and QAQC14A: Updated link in description to https://www.myexostar.com/?ht_kb=lmp2p-training-resources<br><br>QPOR: Updated description verbiage as part of a process improvement (OET Idea 3340) to better clarify what action suppliers should take when they receive a purchase order with QAQC14. |
| 12/05/2023 | Redefined QTR | Repurposed inactive QTR code for Tape and Reel Required to improve visibility of requirements flow down to suppliers. Previous requirement was text placed in body of PR. Supports OET #5015. |
| 12/19/2023 | Corrected: QSP, QSPS | Added missing information that was left out in the previous revision. |
| 03/18/2024 | Added QCOC | QCOC: The Corporate Quality Working Group has created a new Certificate of Conformance code, QCOC, which is documented in SQM-1 and supports the 1LMX accelerator project. The new QCOC code integrates the functions of both QA5 and QB5, promoting standardization across business areas and generating cost savings for Space. As a result, the use of QA5 and QB5 will be discontinued at a future date. |