

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.

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Quality Clauses

TABLE I: CURRENT SPACE QUALITY CLAUSES

Q-Code	QID	Title	Long-Text
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 8; 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 8; 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.
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)	<p>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.</p> <p>This Quality System Requirement is not applicable to this product's Original Equipment Manufacturer (OEM)/Original Component Manufacturer (OCM).</p> <p>Approval to a higher level Quality Management System may also be accepted.</p>
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	<p><i>*LM internal note: DO NOT FLOW TO SUPPLIERS ON PO. This Q-Code is in 253-01 for supplier reference only.</i></p> <p>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.</p> <p>To be granted the Q4M approval, the supplier must adhere to the following:</p> <ol style="list-style-type: none"> Supplier must be AS9100 certified. Supplier's procedural requirement for an on-site survey to an adequate process specific questionnaire performed by a technical SME. Must utilize a vendor rating system that identifies unacceptable sub-tier performance with criteria for corrective action and criteria and frequency for re-survey Must have a managed list of sub-tier processor approval(s) that contains approval by specification and expiration dates.

			<p>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:</p> <ol style="list-style-type: none"> 1. Highlight the special process 2. Select special processors 3. Select <u>yourself</u> as the special processor <ol style="list-style-type: none"> a. If your name does not show up as an approved processor, contact your LM buyer to have the hierarchy table updated. <p>For additional information on how to use the ship-to-module, view the downloadable guide here.</p>
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	<p>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.</p> <p>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)</p>

			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.
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	<p>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.</p> <p>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.</p> <p>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.</p> <p>Contractor shall establish a baseline of procured or developed software by performing validation tests that include demonstration of pass/fail criteria.</p> <p>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.</p>
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.
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. Guidance for the setup/implementation of a FOE Program can be found at: http://www.lockheedmartin.com/us/suppliers/resources.html .
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. Contractor shall include, with each parts shipment, a Supplier Quality Report indicating the results of the final inspection per the DQRP agreement.
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.
QTPA	Q	PRODUCT ASSURANCE OD68756 APPLIES	Active Supplier and supplier's subtiers for Support Equipment shall comply with the requirements of the current issue of OD68756 for all materials and processes specified in design disclosure called out in this purchase order or subcontract. Requests for changes to OD68756 to add or modify substitutions shall be submitted to LM subcontracts via a Vendor (Supplier) Request for Information or Change (VRIC) in accordance with A689426.
QEDSS	Q	ELECTRONIC DATA SUPPLIER SUBMITTAL	<p>The Seller shall submit all data electronically using the Electronic Data Supplier Submittal (EDSS) system prior to shipment when documentation requirements are specified in the Purchase Order (PO). The Seller shall create an Inbound Delivery barcode (IBD) shipping document per Quality Code QBRCD and include the manufacturer's cage code as well as any applicable traceability data (Heat Lot, Date Code, Lot Number, etc.) Upon completion of data submittal in EDSS, a confirmation email will be provided. The confirmation email shall be attached to the Exostar/P2P "Supporting Documentation" field.</p> <p>Only the Packing List, IBD, and any relevant hazardous material documents are required with the shipment of material. All other documentation is required to be uploaded electronically to EDSS. The Seller is responsible for assuring objective evidence is retained for all information provided electronically. Material received by the Buyer without electronic data/documentation may be subject to rejection and return at the Seller's expense.</p> <p>Additional requirements may exist on the PO to provide data prior to shipment or with shipment for acceptance. Seller is responsible for reviewing and complying with all requirements for shipment of data.</p> <p>If multiple shipments for a PO Line Item are made on the same day, use the Cartons feature within the ship-to module to create a single IBD barcode number for all the boxes, unless directed otherwise on the PO. The cartons feature shows the total number of boxes being shipped on the IBD and creates the same number of printable barcodes.</p> <p>Seller must contact the LM Space Supply Chain Quality Assurance EDSS sponsor or their LM Space Global Supply Chain representative for help/support in obtaining access to "AccessLM" and use of the EDSS tool. Send an Email to the EDSS Resource Account: wgc-edss.fc-lmssm@lmco.com to contact the appropriate EDSS sponsor.</p> <p>EDSS training material can be found: https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/space.html</p> <p>LM Procure to Pay (P2P) ship to module training is available at: https://myexostar.com/wp-content/uploads/2022/06/LMP2P-Quality-Ship-To.pdf</p>
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. Certification must contain the following: -Lockheed Martin Purchase Order number -Part number specified on Lockheed Martin PO -Drawing revision -Name and address of manufacturing location (or Cage Code) -Quantity shipped-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 -Signature and date by company representative (electronic signature is acceptable) 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.
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.). The supplier's Certificate of Conformance represents that the product, and each sub-tier supplier's product(s) contained therein, meet this requirement. 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	<p>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.</p>
QCOC	Q	CERTIFICATE OF CONFORMANCE REQUIRED BY LM	<p>Seller shall submit a signed/stamped and dated Certificate of Conformance (C of C) with each shipment.</p> <p>Note: AS9163 to be used as guidance for completion of compliant C of Cs.</p> <p>For Buyer Part Numbers, Vendor Item Control, or Source Control Drawings, as specified in the buyer's PO, C of C shall identify at a minimum:</p> <ol style="list-style-type: none"> 1. Manufacturer's name 2. Manufacturer's Address, Cage Code, or DUNS 3. Buyer PO and Line Item number 4. Material quantity 5. Buyer drawing number and Revision 6. Buyer parts list revision when parts list is specified on Buyer drawings or defined in the PO. 7. Seller part number and revision when specified as part of the Buyer drawing requirements 8. Traceability Data (if applicable) (i.e. serial number, date code, production lot number) <p>For Seller Part Numbers, as specified in the buyer's PO, C of C shall identify at a minimum:</p> <ol style="list-style-type: none"> 1. Seller's name 2. Manufacturer's Address, Cage Code, or DUNS 3. Buyer PO and Line Item number 4. Material quantity 5. Seller part number 6. Traceability Data (if applicable) (i.e. serial number, date code, production lot number)
QTC6	Q	COUNTERFEIT PART, MATERIAL, AND WORK AVOIDANCE AND CERTIFICATION	<ul style="list-style-type: none"> • 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. • The supplier shall verify the procurement source and associated certifying documentation.

			<ul style="list-style-type: none"> • Supplier's receiving inspection process shall utilize incoming inspection or test methods, or both, to detect potential counterfeit parts, material or work. • The supplier shall flow this clause in its entirety or equivalent (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. <p>*All definitions can be found at the following link under 'Counterfeit Work Definitions': http://www.lockheedmartin.com/us/suppliers/bu-info/space/space-tandc.html</p>
APPROVAL / ACCEPTANCE			
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	<p>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:</p> <p>A. The identity and unit weight of explosive(s); B. Maximum sensitivity of the explosive(s) (Mechanical, electrical, and/or thermal); C. Contractor's drawing or part number, lot number, year of manufacture and serial number of each component, if applicable.</p> <p>Contractor's acceptance test procedures, shall include:</p> <ol style="list-style-type: none"> 1) Minimum current for "All Fire;" 2) Maximum current for "No Fire;" 3) Recommended checkout procedure; 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, 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	<p>** PO Requirements and Start Up Review Required **</p> <p>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.</p> <p>Lockheed Martin's approval of supplier's readiness does not release the supplier from the responsibility of meeting all PO requirements.</p> <p>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': 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.</p> <p>For further instruction, please refer to: https://www.myexostar.com/?ht_kb=imp2p-training-resources</p> <p>Or view instructional video under "Request PO Review Video": https://www.myexostar.com/wp-content/uploads/2022/06/How-to-request-PO-review-with-voice.mp4</p> <p>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.</p>

<p>QSP</p>	<p>Q</p>	<p>SPECIAL PROCESS APPROVAL AND CERTIFICATION</p>	<p>Special processes are identified in the Purchase Order (PO) using a 10-digit PO code.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Sub-Tier suppliers with a Quality only profile, (Qxxxxxxx) 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.</p> <p>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.</p> <p>Note: There is an LM-controlled hierarchy table running in the background. When the contractor searches for a 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.</p> <p>To look up supplier approvals:</p> <p>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=imp2p-training-resources</p> <p>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.</p> <p>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.</p>
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<p>QSPS</p>	<p>Q</p>	<p>SPECIAL PROCESS APPROVAL AND CERTIFICATION</p>	<p>Special processes are identified in the Purchase Order (PO) using a 10-digit PO code.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Sub-Tier suppliers with a Quality only profile, (Qxxxxxxx) 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.</p> <p>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.</p> <p>Note: There is an LM-controlled hierarchy table running in the background. When the contractor searches for a 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.</p> <p>To look up supplier approvals:</p> <p>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</p> <p>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.</p> <p>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.</p>
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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 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	<p>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.</p> <p>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.</p>
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	<p>Under this clause, Customer grants no MRB authority to the Organization or it's sub-tier suppliers. Repair is not allowed under this clause.</p> <p>Definitions:</p>

		<p>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.</p> <p>Rework: Used when an article can be made to conform to drawing requirements. Detailed instructions must be included or referenced.</p> <p>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.</p> <p>The controls and related responsibilities for dealing with nonconforming product shall be defined in a documented procedure.</p> <p>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."</p> <p>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.</p> <p>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.</p> <p>Note: preliminary review does not negate the requirement to identify, segregate, document, report and disposition nonconformances.</p> <p>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.</p> <ul style="list-style-type: none"> · The problem is detected during one of the following: <ol style="list-style-type: none"> 1. Certification, acceptance, or qualification testing
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			<p>2. Other “significant” test as specified by the customer</p> <p>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.</p> <p>· And it is:</p> <ol style="list-style-type: none"> 1. Flight hardware 2. Flight Hardware Spares 3. Equipment that is representative of flight hardware (flight-like hardware), including prototype and qualification hardware 4. Ground Support Equipment (GSE) that is safety critical
QB4F	Q	FAILURE ANALYSIS REPORT	<p>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:</p> <ol style="list-style-type: none"> 1) Date of report; 2) Contract number; 3) Contractor's name and address; 4) Part name, number, revision level, and serial/number; 5) MARS number (if specified by Contract); 6) Specific and contributory causes of failure; 7) List of parts required to repair item(s); 8) Corrective action taken to preclude recurrence and effectivity by date or serial number of corrective action; 9) Signature and title of Contractor's Quality Representative approving the failure analysis report.
QD1	Q	PRELIMINARY REVIEW AUTHORITY	<p>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 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.</p>
QLZ	Q	FAILURE/DISCREPANCY THRESHOLD	<p>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.</p>

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.
QSC	Q	QUALITY SYSTEM CHANGES AND CUSTOMER FINDINGS	<p>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:</p> <ol style="list-style-type: none"> 1. change in its quality system status; or 2. loss of certification status; or 3. change in Seller's quality organization, processes or procedures that are known to affect or could potentially affect conformity of any Item; or 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: <ol style="list-style-type: none"> 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 ii. Issuance of a major finding by a third-party registrar 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	<p>Organization will include with each shipment a certificate for the NDI/NDT performed. As a minimum, the certification shall contain the following information:</p> <ul style="list-style-type: none"> · Customer's Purchase Order / Contract number · Name and address of the Company performing NDI/NDT; · Date of Inspection; · Quantity of parts tested by part number;

			<ul style="list-style-type: none"> · Specification or other requirement defining the NDI/NDT acceptance / rejection criteria; · Inspector/name/stamp and NDI/NDT certification level; · NDI/NDT specification including revision; · Material or item identification (part number, heat lot number, Foundry Record (FR) number; · Material or item traceability (serial number, lot number, batch number, lot/date code); · Inspection results (accept/reject); · Reference to previous NDI/NDT reports for repair/rework if applicable; · 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 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	<p>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:</p> <ol style="list-style-type: none"> (1) batch or lot number; (2) date manufactured; (3) specification or material control information number; (4) Contractor's designation; (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.
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: (1) MIL-STD-883, Method 2020, Test Condition "A", for microcircuits, (2) MIL-STD-883, Method 2020, Test Condition "A" or "B", for hybrids, (3) Mil-STD-750, Method 2052, Condition "A", for transistors, (4) Mil-PRF-19500 for diodes, and (5) Mil-PRF-39016, Rev. E, Appendix "B", and the Manufacturer's Approved Procedure, for relays. 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. 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. When organization supplies converted material produced by a raw material manufacturer, the organization

			<p>shall submit all pre and post conversion chemical / physical tests reports. 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).</p> <p>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.</p>
QAQC26	Q	AQC26 ELECTRICAL WIRE AND CABLE TEST REPORT	<p>Organization shall provide certification that each shipment of electrical wire or cable furnished under this contract conforms to the applicable specifications.</p> <p>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 (not pass/fail) when numerical specification limits are defined. For cable shipments, these requirements apply to both basic and finished cable.</p> <p>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.</p>
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/FORGIN GS)	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	<p>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.</p> <p>In addition to actual test reports, the suppliers certification statement signifies the material being delivered</p>

			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 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.
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 <ul style="list-style-type: none"> - A listing of the critical characteristics verified, - The name of contractor, - Part number, - Purchase order number, - Serial number(s) (when applicable)

			- 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.
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)			
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. 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. 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.

			<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
QAQC14	Q	QAQC14 CUSTOMER SOURCE INSPECTION (CSI)	<p>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.</p> <p>The supplier shall use EXOSTAR to arrange source inspection. The supplier may view a source inspection request process document using the following link:</p> <p>https://www.myexostar.com/?ht_kb=imp2p-training-resources</p> <p>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.</p> <p>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.</p> <p>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.</p>
QAQC14A	Q	QAQC14 CUSTOMER SOURCE INSPECTION (CSI) -	<p>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.</p>

		<p>NON MATERIAL BACKED PR</p>	<p>The supplier shall use EXOSTAR to arrange source inspection. The supplier may view a source inspection request process document using the following link:</p> <p>https://www.myexostar.com/?ht_kb=Imp2p-training-resources</p> <p>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.</p> <p>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.</p> <p>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.</p>
<p>QAQC15</p>	<p>Q</p>	<p>AQC15 FIRST ARTICLE INSPECTION</p>	<p>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.</p> <p>The First Article(s) shall be produced on production equipment and using processes which will be utilized on production runs.</p> <p>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).</p> <p>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.</p>
<p>QCF</p>	<p>Q</p>	<p>GOVERNMENT SOURCE INSPECTION C OF C</p>	<p>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)</p>

			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. 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. Coupon inspection shall be performed by LM. Include on paper work with shipment: PO Number Part number D/C S/N 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.
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. 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. *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	<p>A. Safety Data Sheet 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.</p> <p>B. Shipping Data 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.</p>
QDTS	Q	DOCK TO STOCK PROCESS	<p>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 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.</p> <p>Exostar Help Guides: http://www.myexostar.com/LMCO-Procure-to-Pay/P2P-Support-Guides/</p>
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	<p>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.</p> <p>Tape and reel requirements.</p> <ul style="list-style-type: none"> • Tape and reel must include a leader and trailer. • Digi-reel MouseReel and similar value-added options are acceptable alternates when parts are ordered from those distributors. • 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	<p>Identify each item on this order as a Non-Flight Item (NFI).</p> <p>Regarding EEE components/assemblies: The Supplier shall mark EEE Non-Flight devices being delivered or accompanying flight Electronic,</p>

			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.
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	<p>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.</p> <p>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.</p> <p>Records held for the required retention period (ten years) shall not be destroyed without Customer's written concurrence.</p>
QAQC27	Q	AQC27 EEE PARTS DATE OF MANUFACTURE	<p>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.</p> <p>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.</p>
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.

			<p>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.</p> <p>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.</p>
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
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	<p>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.</p> <p>IDENTIFICATION</p> <p>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:</p> <p>A) Serialization of individual elements, such as parts, boards, modules, assemblies, etc., as appropriate with each element identified by a unique number or code.</p> <p>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.</p> <p>RECORDS</p> <p>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.</p>

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.) 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	<p>GPSIII Code Only: For MIL-PRF-38534 Class K components, the supplier shall perform the following:</p> <ul style="list-style-type: none"> • 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. • The Supplier shall provide an electronic copy of most recent test data to the Purchasing Agency for verification. • The Purchasing Agency will verify and instruct supplier. <p>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.</p>
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	<p>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. 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.</p> <p>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.</p>
1LM-IN-204	Q	Inspection Data Deliverable	<p>Seller inspection data and/or test reports are required. Dimensional inspection data for all critical/major characteristics and indication of acceptance for minor characteristics shall be included in an inspection report on items delivered under this purchase order. This report shall reference part number, revision level, serial numbers (as applicable), and purchase order number.</p> <p>Minimum level of inspection shall be: 100% for critical characteristics, 1.0 AQL level II, ASQ Z1.4 for majors, and 2.5 AQL level II, ASQ Z1.4 for minors (all other than critical or major).</p> <p>The Seller shall submit all data and documentation electronically using the Electronic Data Supplier Submittal (EDSS) system prior to shipment.</p>
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.
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. Report submittal requires the supplier to utilize form FBM-Quality-173-T3 Consume/Destroyed CII Traceable Hardware form. Required Information (shall contain at a minimum): <ul style="list-style-type: none"> • Contractor's name and address <ul style="list-style-type: none"> ○ and/or independent laboratories' name and address. • Reference Contract number • LM Serial Number – Lockheed Martin Serial Number • Material Part Number – Part Number of Material • Nomenclature – Material Description • Action Performed – Installation into Higher Assembly/Destroyed in Test/Inventory Count • Transaction Authority Number – Document that item was issued to use • Date of Action – Date Accomplished • Next Higher Assembly LM Serial Number – Item part installed in 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
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 Disposition 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 Changes at the supplier that may require a new FAI be performed: 1) Change to supplier location or facilities. 2) Change to process, or design. 3) Two year or more break of production. 4) Plant shutdown or labor strike exceeding 90 days. 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 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 Preparation 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
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)
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)
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
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
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 & Angstrom 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
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.

TABLE II: SPACE 1LM TEXT KEYS

Standard Supplier Quality			
Autoflow Text Keys			
SPC-SQ-001	Q	Quality, Safety, and Ethics Awareness	<p>Seller shall establish a communication method that ensures all personnel are aware of their contribution to product safety and product or service conformity. This method shall establish a frequency of communication that is appropriate to the organization and this communication will occur annually at a minimum. Seller shall maintain records of this communication.</p> <p>Supplier ethics should align with the Lockheed Martin Supplier Code of Conduct that can be found linked on the Supplier Ethics page (https://www.lockheedmartin.com/en-us/suppliers/supplier-ethics.html)</p>
SPC-SQ-002	Q	Sub-tier Requirements Flowdown	When products or services applicable to this PO are procured by the seller from Sub-tier suppliers, the seller shall flow the quality PO requirements and all other requirements, as necessary, to assure full compliance is achieved
SPC-SQ-003	Q	Documentation Language	<p>The Seller shall have the capability to communicate verbally and in writing in the English language. All documents requiring submission or approval to the customer (e.g. reports, correspondence, drawings, notices, marking, documents, records, and other communications) shall be in the English language unless otherwise specified on PO.</p> <p>The Seller shall communicate the language requirements (English) to external providers</p>
SPC-SQ-004	Q	Counterfeit Avoidance	<p>This entire note, or requirements that meet the intent of this note, shall be flowed down to all Sub-tier suppliers under this contract and the Seller shall provide evidence of compliance to this note upon request.</p> <p><i>Sourcing:</i></p> <p>1. Seller shall only purchase products to be delivered or incorporated as work to the Buyer directly from:</p> <ul style="list-style-type: none"> • Original Component Manufacturer (OCM) • Original Equipment Manufacturer (OEM) • Through an OCM/OEM authorized suppliers (distributor) • Or from suppliers that obtain such parts exclusively from the original manufacturer of the parts or their authorized dealers with no intermediaries. • <p><i>Seller may use another source only if:</i></p> <p>1. The foregoing sources are unavailable, the seller submits a comprehensive risk mitigation test and inspection plan to the Buyer, and the buyer approves in writing. Test results shall be reviewed and approved by the Buyer's Quality Engineering prior to shipping or incorporating into deliverable hardware.</p>

			<ol style="list-style-type: none"> 2. Seller's inspection and other counterfeit risk mitigation processes will be employed to ensure the authenticity of the work. As a minimum, testing shall be in accordance with AS6171 Moderate Risk Model 2. 3. The suppliers meet applicable DOD-adopted counterfeit prevention industry standards (as shown in the DoD ASSIST data base (https://quicksearch.dla.mil/qsSearch.aspx) and processes (including tests). 4. Independent distributors or brokers are not acceptable suppliers and shall not be used to provide product delivered under this PO unless approved in advance, in writing, by the Buyer. <p>Approval to use another source other than defined above requires the submittal of a comprehensive risk mitigation test and inspection plan to the Buyer. The risk mitigation plan shall define appropriate tests and inspections, as well as acceptance criteria, to validate the products authenticity.</p> <p>Test results shall be reviewed and approved by the Buyer's Quality Engineering prior to shipping or incorporating into deliverable hardware.</p> <p><i>Counterfeit Prevention Processes:</i></p> <ol style="list-style-type: none"> 1. The Seller shall have counterfeit parts prevention processes that supplement those required by SAE QMS standards AS9100, AS9120, AS9110 or ISO9001. 2. Seller shall develop and implement a counterfeit product control plan using industry recognized standards applicable to the product being delivered as guidance. The plan shall be available for the Buyer review upon request. Examples of industry and DoD recognized SAE standards are AS5553, AS6081, AS6174, and AS6171 3. The Seller's counterfeit avoidance and detection systems are subject to Buyer and/or Buyer's customer audit and approval. 4. <p><i>Traceability:</i></p> <ol style="list-style-type: none"> 1. Seller shall implement systems that assure traceability of all material from the original manufacturer to product acceptance by the Buyer. 2. Seller shall have processes that enable tracking from the OCM, OEM or the OCM/OEM authorized suppliers, whether the part is supplied as a discrete part or is contained in an assembly. 3. This requirement applies to all work delivered to the Buyer either directly or indirectly as components or included in assemblies.
SPC-SQ-006	Q	Supplier Process Change Control and Notification Requirements	<p>All notifications/requests within this requirement shall be submitted to the buyer in writing before implementing changes that affect safety, quality, fit, form, function, or reliability.</p> <p>Requirements for all Sellers:</p> <ol style="list-style-type: none"> 1. Seller shall notify Buyer, in writing, within 10 working days of any of the following: <ol style="list-style-type: none"> a. Issuance of any major Level II or Level III Corrective Action Request associated with Buyer Items, QMS, or processes associated with Buyer Items b. Issuance of a major finding by a third-party registrar c. Suspension of Government Source Inspection

			<ul style="list-style-type: none"> d. Change in Seller’s quality system status e. Change in Seller’s special process accreditations f. Loss of third-party registrar’s certification status g. Adverse action taken by a US Government entity (e.g. FAA, CAA, OSHA, DoD, EPA, NASA, etc.), third party registrar, International Government Agencies, National Aerospace and Defense Contractors Accreditation Program (NADCAP) or other governing entity. <ol style="list-style-type: none"> 2. Seller shall provide actions taken and/or planned actions related to any events listed above with the written notification. 3. Seller shall provide the approved corrective actions taken in response to any adverse actions reported above within 30 days of the written notification. 4. Seller shall permit Buyer access to data in OASIS and NADCAP databases including registration documentation, certification, audit reports, findings, corrective actions, etc. 5. Seller shall promptly notify buyer when they become aware or reasonably suspects that any product delivered to Buyer is, or contains a component that is, subject to a recall notice, warning alert, GIDEP Alert, and/or any other type of notification or concern regarding product authenticity, quality, safety, process integrity, and/or specification compliance. 6. Seller shall notify Buyer, in writing, at least 90 days in advance of any sale, relocation, or closure of Seller’s facility or transfer of manufacturing operations (subject to any legal or regulatory restrictions). 7. Seller shall include the following, as a minimum, in the written notification <ul style="list-style-type: none"> a. Purpose of the applicable change b. Address of the new location(s), when applicable c. Assessment of actual or potential impact to current Purchase Orders d. Risk mitigation plan to ensure compliance to existing requirements e. Plan defining the identification, storage, protection, retrieval, and retention of records, if applicable f. Master schedule and timeline of applicable change activity, and Relocation Coordinator/Point of Contact, if applicable g. Updated DUNS information, when applicable <p><i>Additional requirements for buyer controlled part Numbers, vendor item control, or source control drawings:</i></p> <ol style="list-style-type: none"> 1. Seller shall not implement, or otherwise deliver to Buyer, products incorporating any "material change" without the express prior written approval from the Buyer. Such approval shall not be unreasonably withheld but shall be dependent upon the Seller’s thorough documentation of such proposed changes (including any analysis necessary to confirm continued suitability). Seller’s notification and Buyer’s approval of "material changes" shall not be interpreted to waive any other contractual requirement(s) or to otherwise relieve Seller from delivering fully compliant products. <p><i>Additional requirements for seller part numbers or industry standard parts:</i></p> <ol style="list-style-type: none"> 1. Prior to delivering any products incorporating a “material change”, Seller should provide advance notice to Buyer, as they become aware and allow sufficient time to reasonably evaluate the change and, if necessary, to place an end-of-life order for the unchanged products.
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SPC-SQ-007	Q	Facility Access	<p>1. The seller is required to grant or arrange access for the buyer, the buyer's customers, and/or regulatory agency personnel to all facilities where work related to this contract is being performed or is scheduled to be performed. This access includes facilities of the seller's sub-tier suppliers and is to be provided for the purpose of conducting item inspections, surveys, or system/process surveillance to verify compliance with the requirements of this Purchase Order. Any access of the seller's facilities or seller's sub-tier suppliers would be mutually agreed to buy buyer and seller for scope and time of visit.</p> <p>2. Seller shall flow this quality requirement for facility access to its sub-tier suppliers and/or agents with instructions that it is to be flowed down to subcontractors at every tier.</p>
SPC-SQ-008	Q	Control of Nonconforming Product / Material Review Process	<p>Once a deviation or waiver (nonconforming) condition is identified, continuing to add value to the item(s) without Buyer approval is at Seller risk. Unless otherwise specified in this purchase order or other contractual documentation, the Seller and/or any of their suppliers/subcontractors do not have authority to process use-as-is, repair, or standard repair procedures via their Material Review Board (MRB).</p> <p>This MRB authority requirement is not applicable to Commercial Off the Shelf Products (COTS).</p> <p>These dispositions, including Request for Deviations and Request for Waivers, require Buyer MRB disposition and shall be submitted to the Buyer for approval (this does not include rework or scrap) 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).</p> <p>Buyer and Buyer's customers retains the right to verify, accept, and/or reject implementation of the approved nonconformance disposition. (Seller shall not scrap or rework Buyer Furnished Material without prior written authorization from Buyer.)</p> <p><i>Definitions for Rework, Repair, Use-As-Is, Deviation, and Waiver are as follows:</i></p> <ul style="list-style-type: none"> · Rework - Work performed in reprocessing material to make it conform to the contract requirements. A rework item complies with drawing or other specified requirements following the application of the rework process. · Repair - A process designed to make material acceptable for its intended function, but not in conformance with documentation or other specified requirements. Repair is distinguished from rework in that the item to be repaired shall not comply with applicable drawings after the repair but shall be acceptable for the intended use.

			<ul style="list-style-type: none"> · Use-As-Is (UAI) - A disposition of material with a minor defect when the appropriate authority determines that the material is satisfactory for use without any additional rework or repair. Defects other than minor, must be reworked to a minor level prior to being documented as use-as-is. · Deviation - A written authorization, granted prior to the manufacture of an item, to depart from a specification or drawing for a specific unit(s) or a specific period. · Waiver - A written authorization to accept an item, which during production or inspection, is found to depart from specified requirements.
SPC-SQ-009	Q	Quality Record Retention - Auto-flow (7 Years)	<ol style="list-style-type: none"> 1. Quality records shall be maintained for the lifetime of the Purchase Order plus a minimum of 7 years after Purchase Order closure, or for longer periods if specified elsewhere on this PO. 2. Quality records shall be established and maintained by the Seller to provide evidence of conformity to requirements and the effective operation of the Seller's QMS. As a minimum, quality records such as inspection reports, test reports, certifications, chemical, physical reports, and etc. shall be maintained. 3. Records may be archived to an offsite location but shall remain legible and readily retrievable. Buyer reserves the right to periodically audit the Seller's historical records, retention policies, and practices. 4. The Seller shall notify the Buyer of any organizational actions that may affect record retention compliance. This may include but is not limited to company merges, closures, or acquisitions.
SPC-SQ-010	Q	Corrective action, preventive action, request and reporting	<p>When required, the Seller agrees to provide a formal response to all Supplier Corrective Action Requests (SCAR) within the timeframe when issued.</p> <p>Documentation of root cause, containment, corrective action, preventive action, and effectivity will be submitted for SCAR Coordinator approval.</p>
SPC-SQ-011	Q	Material Revision Control	<ol style="list-style-type: none"> 1. When revision is identified on the purchase order, the revision of material delivered shall match the revision identified on the purchase order. 2. Sellers with Design Authority shall use the latest released design revision as determined by the Seller's configuration control system or Technical Design Package approved by Lockheed Martin when required. 3. The Seller shall use the latest released revision for referenced military, industrial, and commercial standard part numbers, at time of the Purchase Order placement unless otherwise stated in the design documentation or by the Buyer in the contract or Purchase Order. 4. Cancelled specifications may have cancellation notices that indicate a superseding, or suggested replacement specification. Seller does not have authority to implement the superseding or suggested replacement. Seller shall contact the Buyer for approval prior to working with the replacement specification.
SPC-SQ-012	Q	Packaging Auto-flow	<ol style="list-style-type: none"> 1. The Seller shall comply with packaging requirements identified in Buyer drawings, Statement of Work, or on the Purchase Order. 2. Unless otherwise stated, the Seller will determine how to package products to prevent corrosion, contamination, deterioration, foreign object damage, ESD damage, physical damage, and other Seller

			<p>identified shipment/packing risks during transit and storage. This may follow commercial industry standards such as ASTM D3951 or military practices such as MIL-STD-2073.</p> <p>3. Polyethylene Plastic material such as Pink Poly material shall not be used as a packaging material in direct contact with electro-mechanical/electronic/electrical components (i.e. as an insert in waffle packs or trays).</p> <p>4. The Seller's packaging and/or cushioning material shall be ethically sourced, reusable, recyclable, and recoverable to the maximum extent possible.</p>
SPC-SQ-013	Q	Part Substitution Requirements	<p>All parts supplied to this order must strictly adhere to the identified part numbers, drawings, and specifications. Any proposed substitutions, including upgraded, alternate, or equivalent parts, must be approved in writing by Lockheed Martin prior to shipment. If the PN specified on the PO is incorrect, obsolete, or different, the Lockheed Martin buyer must be notified immediately for evaluation and written direction</p>
SPC-SQ-014	Q	Foreign Object Damage - Auto-flow	<p>1. Seller should maintain a Foreign Object Damage (FOD) prevention program. As a guideline, Seller may maintain a FOD Prevention Program using one of the following specifications:</p> <ol style="list-style-type: none"> Aerospace Standard AS9146, "Foreign Object Damage (FOD) Prevention Program - Requirements for Aviation, Space, or Defense Organizations" National Aerospace Standard 412 (NAS 412), "Foreign Object Damage/Foreign Object Debris Prevention" <p>2. Whenever or wherever Foreign Object Debris (FOd) can be entrapped or Foreign Objects (FO) can migrate, Seller shall ensure that applicable FOD prevention requirements are flowed down to Seller's subcontractors at every tier.</p> <p>3. Prior to closing inaccessible or obscured areas and compartments during assembly, Seller shall inspect for FO/materials and ensure no protective devices (e.g., bags, caps, covers, plugs) remain embedded. Seller shall ensure tooling, jigs, fixtures and test or handling equipment are maintained in a state of cleanliness and repair sufficient to prevent FOd and FOD.</p> <p>4. By delivering material to Buyer, Seller shall be deemed to have certified to Buyer that such material and packaging are free from any FO/FOD.</p>
SQ - Standard Supplier Quality			
SPC-SQ-101	Q	Physical Data Submission And Barcode	<p>1. The Supplier shall not upload any data, documentation, certificates, drawings, etc. electronically. Instead, the Supplier shall deliver all required data in physical form. Physical copies of data shall be delivered with each shipment as required by data deliverable requirements. The Supplier shall ensure that all physical copies of data are clearly labeled and organized in a manner that facilitates easy review and processing by the Buyer. Material received at the Buyer without physical data/documentation may be subject to rejection and return at the Seller's expense.</p> <p>2. If multiple shipments for a Purchase Order Line Item are made on the same day, use the cartons feature on the ship-to module to create a single ASN barcode number for all the boxes, unless directed otherwise on the Purchase Order. The cartons feature shows the total number of boxes being shipped on the ASN and creates the same number of printable barcodes. The Seller shall print and attach the barcode to each container being shipped.</p>
SPC-SQ-102	Q	Material Review Authority (See Contract	<p>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</p>

		Agreement For Program)	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.
SPC-SQ-103	Q	Drop Ship	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.
SPC-SQ-104	Q	Statement Of Work/Statement Of Requirements Flowdown	Articles defined in this Purchase Order are subject to additional requirements per a Statement of Work (SOW) / Statement of Requirements (SOR), which must be met to achieve compliance to contract requirements. Articles will not be accepted by Buyer if Seller fails to comply with the requirements of the SOW / SOR.
SPC-SQ-105	Q	Statistical Process Control (SPC)	<p>Seller shall utilize Statistical Process Control (SPC) techniques as a preferred methodology to ensure production hardware quality and conformity. SPC shall be used to measure, analyze, and eliminate source of variations detrimental to product quality. SPC shall be administered by the Seller in areas of highest potential benefit and is encouraged to use nationally recognized standards, such as, ANSI Z1.1, Z1.2, Z1.3, when applying SPC.</p> <p>Seller shall prepare an SPC program plan which will be utilized during production of the articles ordered under this purchase order (PO). The program should contain the following as a minimum:</p> <ol style="list-style-type: none"> 1. The applicable PO number, part number, revision level, part name, and Seller's name. 2. A time-phased schedule for implementation. 3. A listing of production processes (i.e., soldering, machining, plating, casting, etc.) and the points within the production flow where these processes shall be subjected to SPC. 4. For each identified process, a flow diagram shall describe those characteristics that are to be monitored and controlled. Variable and/or attribute data may be considered. 5. For each characteristic identified, the criteria for determining appropriate control limits and the action to be taken upon reaching these limits, including corrective action procedure 6. The methodology for collecting and documenting SPC data, including items such as control charts/diagrams, defect, analysis, capability study format and application, measuring instruments and standards. 7. When sampling is to be used, identification for the sample size and frequency of measurement is required. Additionally, the criteria used for modifying sample size and frequency shall be specified. 8. Flowdown of controls to be employed at subcontract level, when applicable. 9. The training program in SPC techniques and the required qualification for personnel. <p>The SPC program plan, consisting of the aforementioned items, shall be submitted to the Buyer's Quality Engineering for approval prior to SPC program plan implementation. Seller shall notify the Buyer's Quality</p>

			<p>Engineering of subsequent changes affecting the SPC plan. Periodic on-site evaluation of the SPC plan/procedures may be conducted at the discretion of the Buyer.</p> <p>SPC control charts/performance data shall be validated by an authorized Seller's representative, by either an inspection stamp or signature. Data shall include: lot numbers, date codes, PO numbers, part numbers, revision level, part name, Seller's name, etc. Seller shall maintain all documentation on file as specified by the PO.</p>
SPC-SQ-106	Q	Buyer Furnished / Government Furnished Tooling / Equipment	<p>The requirements of this quality note are applicable only if Lockheed Martin buyer or government tooling/equipment is provided or acquired in the performance of this Purchase Order.</p> <p>Definition:</p> <p>The term "tooling / equipment", as used herein, shall include all Buyer or government owned tools/equipment (examples: production tools, special test equipment, special inspection tooling, certified tools, and lifting devices).</p> <p>Seller Receiving Inspection:</p> <p>All tooling and test equipment furnished by the Buyer or the government for performance of work hereunder shall be promptly inspected by seller upon receipt to determine all tooling details have been received (inventory against the tool design drawing) undamaged. Any discrepancy shall be reported in writing to the Buyer, who will furnish instructions as to action required.</p> <p>Seller shall adhere to any and all additional buyer or government-furnished equipment requirements as stated in additional documentation or resources provided elsewhere.</p>
SPC-SQ-107	Q	LM Internal Quality Review Required Prior to PO Placement	<p>** PO Requirements and Start Up Review Required **</p> <p>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. Lockheed Martin's approval of supplier's readiness does not release the supplier from the responsibility of meeting all PO requirements.</p> <p>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': Select the PO line item and click on the 'Request LMC Action' button located at the bottom of the 'Ship-To</p>

			<p>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.</p> <p>For further instruction, please refer to: https://www.myexostar.com/?ht_kb=imp2p-training-resources</p> <p>Or view instructional video under "Request PO Review Video": https://www.myexostar.com/wp-content/uploads/2022/06/How-to-request-PO-review-with-voice.mp4</p> <p>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.</p>
SPC-SQ-108	Q	Foreign Object Detection (FOD) Prevention	<ol style="list-style-type: none"> 1. Seller shall maintain a Foreign Object Damage (FOD) prevention program. As a guideline, Seller may maintain a FOD Prevention Program using one of the following specifications: <ol style="list-style-type: none"> a. Aerospace Standard AS9146, Foreign Object Damage (FOD) Prevention Program - Requirements for Aviation, Space, or Defense Organizations b. National Aerospace Standard 412 (NAS 412), Foreign Object Damage/Foreign Object Debris Prevention. 2. Whenever or wherever Foreign Object Debris (FOd) can be entrapped or Foreign Objects (FO) can migrate, Seller shall ensure that applicable FOD prevention requirements are flowed down to Seller's subcontractors at every tier. 3. By delivering Items to Buyer, Seller shall be deemed to have certified to Buyer that such items and packaging are free from any FO/FOD.
SPC-SQ-109	Q	Government-Industry Data Exchange Program (GIDEP) Membership	<ol style="list-style-type: none"> 1. If Seller is eligible for GIDEP membership, Seller is required to be a member of GIDEP. <ol style="list-style-type: none"> a. Per GIDEP Website/ Manual, GIDEP membership is limited to U.S. and Canadian government departments, agencies, and activities and industry organizations that directly or indirectly do business with the U.S. or Canadian government and have agreed to comply with GIDEP policies and procedures. b. The policy of the Department of Defense (DoD) is that all DoD components and activities fully support and maximize their participation in GIDEP in accordance with their implementing directives. 2. The Seller shall implement a process for reviewing and evaluating problems identified in GIDEP alerts. Seller shall ensure that these alerts do not adversely affect previous, current, or future procurements/deliveries, and that new designs or redesigns and seller's supply chain transactions consider relevant GIDEP information, including diminishing manufacturing sources/material shortages (DMS/MS). 3. The Seller is responsible for flow down of this requirement to eligible Sub-tier suppliers, and for assuring Sub-tier supplier compliance with the requirements.
SPC-SQ-111	Q	Variation Management - AS9103	<p>Variation management in accordance with aerospace standard AS9103 is required for the item/s on this purchase order. The seller shall develop a process control document as defined in AS9103. The seller shall submit the process control document for buyer approval.</p>

SPC-SQ-112		Government Assessment	<p>During the performance of this contract, the Seller's manufacturing processes, products, and associated inspection and/or test data are subject to review via product examination or process review by an authorized Government Representative.</p> <p>Seller shall furnish reasonable facilities access and assistance for the safe and convenient performance of these duties at no additional cost to the Government.</p> <p>The Government has the right to inspect and test all supplies called for by the contract, to the extent practicable, at all places and times, including the period of manufacture, and in any event before acceptance. The Government shall perform inspections and tests in a manner that will not unduly delay the work. The Government assumes no contractual obligation to perform any inspection and test for the benefit of the Contractor unless specifically set forth elsewhere in this contract.</p> <p>Upon receipt of this order, promptly notify the Government Representative who normally services your facility so that appropriate planning for Government Assessment can be accomplished and determined if Product Examinations and/or Process Reviews will be required. In the event the Representative or office cannot be located, the Seller shall notify the Buyer immediately.</p> <p>Seller shall notify the Buyer of any requests for action issued by the Government (GCAR, audit findings, etc.).</p>
SQ – Record Retention			
1LM-SQ-201	Q	Record Retention - Indefinite	<ol style="list-style-type: none"> 1. Quality records shall be maintained indefinitely. Prior to destruction, regardless of the length of time, the Seller shall gain written destruction approval from the Buyer. 2. Quality records shall be established and maintained by the Seller to provide evidence of conformity to requirements and the effective operation of the Seller's QMS. As a minimum, quality records such as inspection reports, test reports, certifications, chemical, physical reports, and etc. shall be maintained. 3. Records may be archived to an offsite location but shall remain legible and readily retrievable. Buyer reserves the right to periodically audit the Seller's historical records, retention policies, and practices. 4. The Seller shall notify the Buyer of any organizational actions that may affect record retention compliance. This may include but is not limited to company merges, closures, or acquisitions.
SPC-SQ-202	Q	Quality Record Retention - 10 Year	<ol style="list-style-type: none"> 1. Quality records shall be maintained for the lifetime of the Purchase Order plus a minimum of 10 years after Purchase Order closure. 2. Quality records shall be established and maintained by the Seller to provide evidence of conformity to requirements and the effective operation of the Seller's QMS. As a minimum, quality records such as inspection reports, test reports, certifications, chemical, physical reports, and etc. shall be maintained. 3. Records may be archived to an offsite location but shall remain legible and readily retrievable. Buyer reserves the right to periodically audit the Seller's historical records, retention policies, and practices. 4. The Seller shall notify the Buyer of any organizational actions that may affect record retention compliance. This may include but is not limited to company merges, closures, or acquisitions.

CQ - Certification and Qualification			
Quality Management System			
SPC-CQ-001	Q	AS9100D:2016 QUALITY MANAGEMENT SYSTEM -WITH DESIGN	Seller shall provide approval evidence and maintain certification with the requirements of AS9100D:2016, "Quality Management Systems - Aerospace Requirements" with design. Only certifications completed by an IAF (International Accreditation Forum) accredited company will be accepted.
SPC-CQ-002	Q	AS9100D:2016 QUALITY MANAGEMENT SYSTEM -NO DESIGN	Seller shall provide approval evidence and maintain certification with the requirements of AS9100D:2016, "Quality Management Systems - Aerospace Requirements" with design exclusions. Only certifications completed by an IAF (International Accreditation Forum) accredited company will be accepted.
SPC-CQ-010	Q	ISO 9001:2015 QMS CERTIFICATION - WITH DESIGN	Seller shall provide approval evidence and maintain compliance with the requirements of ISO 9001:2015, "Quality Management Systems" with design. Only certifications completed by an IAF (International Accreditation Forum) accredited company will be accepted.
SPC-CQ-011	Q	ISO 9001:2015 QMS CERTIFICATION - NO DESIGN	Seller shall comply with the requirements of ISO 9001:2015, "Quality Management Systems" with design exclusions. Only certifications completed by an IAF (International Accreditation Forum) accredited company will be accepted.
SPC-CQ-020	Q	AIAG IATF 16949:2016 QUALITY MANAGEMENT SYS ISO9001:2015 -WITH EXCLUSION	Seller shall provide approval evidence and maintain compliance with the requirements of AIAG IATF 16949:2016, "Automotive Quality Management System" with design exclusions. Only certifications completed by an IAF (International Accreditation Forum) accredited company will be accepted.
SPC-CQ-021	Q	AIAG IATF 16949:2016 QUALITY MANAGEMENT SYS ISO 9001:2015 -NO EXCLUSION	Seller shall provide approval evidence and maintain compliance with the requirements of AIAG IATF 16949:2016, "Automotive Quality Management System" with design. Only certifications completed by an IAF (International Accreditation Forum) accredited company will be accepted.
SPC-CQ-031	Q	AS 9120 DISTRIBUTOR QUALITY SYSTEM REQMTS	Seller shall provide approval evidence and maintain compliance with the requirements of AS 9120, "Distributor Quality System Requirements". Only certifications completed by an IAF (International Accreditation Forum) accredited company will be accepted.

SPC-CQ-032	Q	AS 9003 INSPECTION AND TEST QUALITY SYSTEM	Seller shall provide approval evidence and maintain compliance with the requirements of AS 9003, "Inspection and Test Quality System".
SPC-CQ-033	Q	SO-SQA-009 SALES OFFICE QUALITY SYSTEM REQUIREMENT	Seller shall provide approval evidence and maintain compliance with the requirements of SO-SQA-009, "Sales Office Quality Systems".
Special Processes			
SPC-CQ-101	Q	Special Process Control - PO Requirements	<p>Special processes are identified in the Purchase Order (PO) using a 10-digit PO code.</p> <p>Processor (Seller and/or Sub-tier) shall have current, required Lockheed Martin approval(s), including both Quality Management Systems (QMS) and special process approvals in P2P at the time of material processing through completion of processing. Sellers that are approved to manage their own special processes approvals know who you are and should follow the guidance of that process.</p> <p>Processor (Seller and/or Sub-tier) shall have current required LM approval(s) in place at the time of material processing. Seller shall verify such approval prior to performing processing.</p> <p>Seller is responsible for contacting the Buyer to request an LM survey 90 days prior to a Lockheed Martin (LM) survey expiration date at the seller's facility or their sub-tier's facility.</p> <p>Lockheed Martin approval of sub-tier special processing does not relieve the Seller of the responsibility to ensure that work performed by sub-tier contractors is in accordance with specification requirements and PO codes.</p> <p>Seller is responsible to ensure that sub-tier suppliers with a Quality only profile, (Qxxxxxxxx) Supplier ID, maintain an approved QMS (AS9100/ISO 9001/AS9003/ AC7004) and required special process approvals in Exostar prior to processing through completion of processing. See Exostar link below for Current Approval guidebook.</p> <p>Seller shall review and plan for special process requirements at the time of PO receipt. Possible gates/error proofing can be placed in a traveler, shop work order or router to verify current QMS and Special Process approval are in Exostar while material is being processed.</p> <p>Note: There is an LM-controlled hierarchy table running in the background. When the contractor searches for a 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.</p> <p>To look up supplier approvals:</p>

			<p>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=Imp2p-training-resources</p> <p>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.</p> <p>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.</p> <p>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=Imp2p-training-resources under the heading “Receiving and Supplier Quality” in the module “Ship to LMC.”</p> <p>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.</p> <p>For additional questions, including expirations coming due, review Exostar current approvals, contact the Buyer.</p> <p>Methods for obtaining LM special process approval:</p> <ul style="list-style-type: none"> - Special Process Approval by an on-site survey by Lockheed Martin or Lockheed Martin acceptance of third-party accreditation. - Accepted certifications include International Accreditation Forum (I.A.F.) certified bodies, Nadcap and A2LA, IPC, and ESDA that are provided to LM for loading into the LM special process management system. <p>Special Process Definition - A documented method used to manufacture products where:</p> <p>When a product undergoes a physical, chemical or metallurgical transformation or inspection, conformance to the specification cannot be readily verified by normal inspection methods, and the quality of the product depends on use of specific equipment operated in a specific manner, under controlled conditions, by trained personnel with instructions, procedures and standards.</p> <p>All Welding, Brazing, Additive Manufacturing, and Lockheed Martin Controlled Special Process Specifications shall be approved in the Buyer's Procure to Pay (P2P) internet portal, including those provided by sub-tier special process suppliers.</p>
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<p>SPC-CQ-102</p>	<p>Q</p>	<p>Special Process Control - Seller Identify from Drawing</p>	<p>Special processes referenced by specification within the Lockheed Martin Engineering Design shall be identified, documented and maintained by the Seller. The Lockheed Martin Approval Code sheet (LMAC) – “Active” tab may be used as a reference to identify special process specifications, approval codes, and required supplemental approvals (Example: AMS2759/9 requires AMS2759 and AMS2750).</p> <p>A copy of 'Approval Code (LMAC) Sheet' with detailed instructions is located at: https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/mfc.html#extforms</p> <p>Contact the Buyer to confirm when specification(s) is/are not found within LMAC. Processor (Seller and/or Sub-tier) shall have current required LM approval(s) in place at the time of material processing. Seller shall verify such approval prior to performing processing.</p> <p>Special Process Definition - A documented method used to manufacture products where: When a product undergoes a physical, chemical or metallurgical transformation or inspection, conformance to the specification cannot be readily verified by normal inspection methods, and the quality of the product depends on use of specific equipment operated in a specific manner, under controlled conditions, by trained personnel with instructions, procedures and standards. All Welding, Brazing, Additive Manufacturing, and Lockheed Martin Controlled Special Process Specifications shall be approved in the Buyer's P2P internet portal, including those provided by sub-tier special process suppliers.</p> <p>Seller is responsible for contacting the Buyer to request a LM survey 90 days prior to a LM survey expiration date at the seller's facility or their sub-tier's facility. Only suppliers listed as approved for these specific special processes within P2P may be used in the manufacture of the Buyer's contracted articles. Special processes for IPC or ESD specifications require approval in the Buyer's Procure to Pay (P2P) internet portal, Nadcap accreditation, IPC accreditation or ESDA accreditation.</p> <p>All remaining special processes require either Buyer's Quality Representative approval or Nadcap accreditation, as follows: To view the Buyer's approved special process suppliers list; search within the Lockheed Martin Procure to Pay (P2P) Portal: http://www.myexostar.com. Log on with your User ID and password, then select the "Current Approvals" tab and search by PO Note number/description or by specification number to view the approved special process suppliers.</p> <p>To view the Nadcap approved process suppliers list; search the eAuditNet website: https://www.eauditnet.com/eauditnet/eau/login.htm Search by the supplier's name and address to view the approved special process suppliers.</p> <p>To view the IPC approved process suppliers list; search the IPC website: https://www.ipc.org/standards/ipc-validation-services Search by the supplier's name and address to view the approved special process suppliers.</p>
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1LM-CQ-103	Q	Seller Control of Sub-Tier Special Processes	<p>Special processes referenced by specification within the Lockheed Martin Engineering Design shall be identified, documented and maintained by the Seller. The Lockheed Martin Approval Code sheet (LMAC) – “Active” tab may be used as a reference to identify special process specifications, approval codes, and required supplemental approvals (Example: AMS2759/9 requires AMS2759 and AMS2750).</p> <p>A copy of 'Approval Code (LMAC) Sheet' with detailed instructions is located at: https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/mfc.html#extforms</p> <p>Contact the Buyer to confirm when specification(s) is/are not found within LMAC.</p> <p>Processor (Seller) shall have current required LM approval(s) in place at the time of material processing. Seller shall verify such approval prior to performing processing. Sub-Tier Processor shall have current required approval(s) in place at the time of material processing.</p> <p>Special Process Definition - A documented method used to manufacture products where:</p> <p>When a product undergoes a physical, chemical or metallurgical transformation or inspection, conformance to the specification cannot be readily verified by normal inspection methods, and the quality of the product depends on use of specific equipment operated in a specific manner, under controlled conditions, by trained personnel with instructions, procedures and standards.</p> <p>*First Tier (Seller)* - Any special processes performed under this contract by the Seller for welding, brazing, additive manufacturing, and Lockheed Martin Controlled Special Process Specifications shall be approved in P2P. Special processes for IPC or ESD specifications require approval in P2P, Nadcap accreditation, IPC accreditation, or ESDA accreditation. This requirement shall be flowed down to related sub-tier suppliers. All remaining special processes performed under this contract by the Seller require either a Buyer's Quality Representative approval or Nadcap accreditation.</p>

			<p>Seller is responsible for contacting the Buyer to request a LM survey 90 days prior to a LM survey expiration date at the seller's facility or their sub-tier's facility.</p> <p>*Sub-Tier* - Welding, brazing, additive manufacturing, and Lockheed Martin Controlled Special Process Specifications shall be approved in P2P. Seller may control all remaining sub-tier special process suppliers or utilize one that is approved by the Buyer, Nadcap, IPC or ESDA. Seller shall assure all sub-tier special process suppliers are capable and qualified to perform the special process in accordance with the specification.</p> <p>To view the Buyer's approved special process suppliers list; search within the Lockheed Martin Procure to Pay (P2P) Portal: http://www.myexostar.com. Log on with your User ID and password, then select the "Current Approvals" tab and search by PO Note number/description or by specification number to view the approved special process suppliers.</p> <p>To view the Nadcap approved process suppliers list; search the eAuditNet website: https://www.eauditnet.com/eauditnet/ean/user/login.htm</p> <p>Search by the supplier's name and address to view the approved special process suppliers.</p> <p>To view the IPC approved process suppliers list; search the IPC website: https://www.ipc.org/standards/ipc-validation-services</p> <p>Search by the supplier's name and address to view the approved special process suppliers.</p> <p>To view the ESD approved process suppliers list; search the ESDA website: https://www.esda.org/certification/eosesd-association-esd-facility-certification/esd-certified-facilities/</p> <p>Prior to selecting/using a Nadcap special process supplier, the Seller and/or sub-tier suppliers shall contact the selected Nadcap special process supplier and confirm that they currently perform the specific Type, Class, Method, etc. per the associated drawing requirements.</p> <p>Seller shall have documentation records available providing objective evidence of adherence to this PO Note requirement. Buyer reserves the right to access these records upon request.</p> <p>Refer to the following link for Special Process Management guidance. https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/mfc.html#quality</p>
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1LM-CQ-104	Q	Seller Approved for Special Processes	<p>Seller, when designing or using a Buyer's engineering specification(s)/design to produce the item(s) under contract shall identify, document and have sole control over any and all special processes/special processors referenced by specification in the design. The Lockheed Martin Approval Code sheet (LMAC) – “Active” tab may be used as a reference to identify special process specifications, approval codes, and required supplemental approvals (Example: AMS2759/9 requires AMS2759 and AMS2750).</p> <p>A copy of 'Approval Code (LMAC) Sheet' with detailed instructions is located at: https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/mfc.html#extforms</p> <p>Contact the Buyer to confirm when specification(s) is/are not found within LMAC.</p> <p>Processor (Seller and/or Sub-tier) shall have current required approval(s) in place at the time of hardware processing. Seller shall verify such approval prior to performing processing.</p> <p>Special Process Definition - A documented method used to manufacture products where:</p> <p>When a product undergoes a physical, chemical or metallurgical transformation or inspection, conformance to the specification cannot be readily verified by normal inspection methods, and the quality of the product depends on use of specific equipment operated in a specific manner, under controlled conditions, by trained personnel with instructions, procedures and standards.</p> <p>Seller shall be responsible to assure all special process providers are capable and qualified to perform the special process in accordance with specification requirements.</p> <p>Objective evidence of surveys shall be retained by the Seller and is subject to the Buyer's periodic audit.</p> <p>A copy of the special process provider's certificate of compliance that certifies each process was accomplished in accordance with the applicable specification shall be available for review by the Buyer as objective evidence the special process was performed to the specification requirements.</p> <p>Refer to the following link for Special Process Management guidance https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/mfc.html#quality</p>
SPC-CQ-105	Q	Special Process Usage Reporting	<p>Seller must keep records of all special processing activities conducted for Buyer, including those performed on Buyer Items or using approved sources. A quarterly Usage Report detailing these activities must be submitted to Buyer within 15 days of quarter-end, even if no approved sources were used. Report should include processing activities in the following categories.</p> <ol style="list-style-type: none"> 1. Seller subcontracting special processing to approved sources 2. Seller performing special processes on Buyer Items for other suppliers 3. Seller performing special processes on Buyer Items it manufactures

			4. Seller's sub-tier manufacturing sources subcontracting special processing to approved sources Note: Usage Reporting is not necessary for Special Processes performed for non-Buyer POs.
Certification			
SPC-CQ-201	Q	DIGITAL PRODUCT DEFINITION DATA APPROVAL	The supplier and/or sub-tier supplier(s) used for this process shall conform to the Digital Product Definition Data (DPDD) requirements which must be approved by Lockheed Martin's quality representatives. Reference ASME Y14.41 for additional guidance. A list of LM approved suppliers can be found within the Lockheed Martin Procure to Pay (P2P) Portal.
SPC-CQ-202	Q	VERIFIED SUPPLIER SURVEILLANCE PROGRAM	<p>Material delivered against this purchase order requires oversight performed by Buyer's Supplier Surveillance. Seller shall partner with the Buyer under the guidelines of the Supplier Surveillance Program. Activities may include the following but not limited to:</p> <ul style="list-style-type: none"> - Purchase Order Review or Contract Validation - Special Process Compliance Assessment - Production/Process Assessment - Lean Six Sigma/6S/FOD Control Assessment - Packaging and Shipment - Risk Assessment - Corrective Action Follow-Up (CAFU) - Quality Management System Assessment - Inspection and Test Methods Evaluations - Mandatory Inspection Points (MIPs) - Drawing/Specification Configuration Reviews - First Article Inspection Validation - Material Compliance Audits - Software Management Assessments - In-Process Inspection - In-Process Surveillance <p>Buyer reserves the right to perform surveillance activities at Seller's facility and/or Seller's Sub-tiers as agreed upon by both parties. Buyer and Seller shall develop a schedule and activities that are mutually acceptable to both parties. Schedule and activities may be subject to change depending on program requirements, personnel schedules, findings, supplier needs, etc., however all changes will be coordinated in advance.</p>
Calibration			
SPC-CQ-301	Q	General Calibration Requirement	Seller shall maintain a system for calibration and maintenance of tools, jigs, inspection, and test equipment that is appropriate to the Seller's type of business. This may be a component of the Seller's QMS or a calibration process compliant to an industry recognized calibration standard (ISO/IEC 17025, ISO Q10012, NAVSEA 04-7434B, etc.).
SPC-CQ-302	Q	ISO/IEC 17025 - General Requirements for the Competence of	<p>Seller shall be certified to ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories".</p> <p>Only certifications completed by a national/international accreditation body will be accepted.</p>

		Testing and Calibration Laboratories	
SPC-CQ-303	Q	ANSI/ISO/ASQ Q10012 - Measurement management systems	Seller shall comply with the requirements of ANSI/ISO/ASQ Q10012, "Measurement management systems Requirements for measurement processes and measuring equipment". Only certifications completed by an ILAC MRA (ILAC Mutual Recognition Arrangement) Signatory body will be accepted.
SPC-CQ-304	Q	NAVSEA 04-4734B - Navy and Marine Corps Calibration Laboratory Audit/Certification Manual, 1 Dec 2006	Seller shall comply with the requirements of NAVSEA 04-4734B, "Navy and Marine Corps Calibration Laboratory Audit/Certification Manual". Only certifications completed by an ILAC MRA (ILAC Mutual Recognition Arrangement) Signatory body will be accepted.
SPC-CQ-310	Q	ISO/IEC 17025 OR ANSI/ISO/ASQ Q10012 – Calibration	Seller shall be certified to ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories" or ANSI/ISO/ASQ Q10012 "Measurement management systems Requirements for measurement processes and measuring equipment". Only certifications completed by an ILAC MRA (ILAC Mutual Recognition Arrangement) Signatory body will be accepted.
EN - Engineering / Drawing			
Requirements and Restrictions			
SPC-EN-001	Q	Critical Characteristics	The Seller shall perform a 100% inspection of all critical characteristics identified in Lockheed Martin's engineering documents and provide a certificate of compliance with each shipment. The certificate must include a list of verified critical characteristics, recorded results, contractor name, part number, purchase order number, serial number (if applicable), and quantity of parts shipped. The certificate shall be validated by a representative from Seller's Quality Department with an electronic signature, physical signature, or inspection stamp with the date completed. The Seller shall electronically upload the measured values and test/inspection records through EDSS.
SPC-EN-002	Q	Configuration Management	Each shipment shall be accompanied by one (1) reproducible copy of the as built configuration status of the assemblies Buyer controlled. The listing shall be identified by assembly serial number. The Seller shall submit all data and documentation electronically using the EDSS.
SPC-EN-003	Q	Embedded Software Requirements	A. Seller shall implement and maintain a Software Quality program or methodology acceptable to Buyer for engineering design, development, testing and delivery of standalone or embedded software products associated with this Purchase Order (PO). B. Seller shall define and maintain an infrastructure to support its software development and testing, that includes, as applicable:

			<ul style="list-style-type: none"> - Software development tools and utilities, including host computer and support software; - Software verification tools and utilities, including test equipment, test software, vulnerability scanners, code scanners, etc; - Equipment, tools and utilities for archiving and storage, disaster recovery protection, replication, software loading, transmittal, record retention, software quality, change management, and configuration management; Integrity verification tools and utilities (e.g., virus protection/checking, digital signatures, security hash algorithms, and CRC); - Equipment and software needed to meet retention requirements; and Security for software environments against attacks (e.g., malicious code, enumeration, fingerprints, worms, viruses, backdoors, and spyware). <p>C. Seller shall implement, and comply with, its Quality Plan, Software Quality Program Plan (“SQPP”) or Systems/Software Quality Program Plan (“SSQPP”), which shall be organized and documented in Seller’s format and shall define Seller’s software and software quality planning. Seller’s SSQPP or SQPP is subject to Buyer’s approval or disapproval. Buyer reserves the right to conduct periodic evaluations of Seller’s compliance with the SQPP or SSQPP. The SQPP or SSQPP can be standalone or included in the Program Quality Assurance Plan or Software Development Plan.</p> <p>D. Seller shall include in its Software Quality program or methodology the review and audit of software development processes, products and activities, as required by Seller, in order to ensure compliance with applicable planning, procedures and standards. Seller shall provide internal and Buyer visibility into Software Quality program trends in its program.</p> <p>E. Seller shall establish and maintain, as part of its Software Quality program as required by this PO, a system which provides for evaluation of each test station/test software used in the automated manufacturing of deliverable hardware or in the qualification or acceptance of deliverable software or hardware. Seller shall ensure this system provides for the following: Required functions of the test station/test software are defined, in writing, and objective evidence exists prior to the intended use of such test station/test software, that such test station/test software performs the required functions. The test station/test software is placed under internal configuration control prior to its use, and such internal configuration control is maintained throughout its use.</p> <p>F. Buyer’s software quality representatives shall have the right to conduct in-process inspection of Seller’s software development process defined in the Quality Plan, SQPP or SSQPP, and to evaluate Seller’s compliance with Seller’s internal procedures and other applicable documents at Seller’s facilities.</p>
SPC-EN-004	Q	Pure Tin Restrictions	<p>The use of unalloyed or pure tin in the internal or external construction of electrical, electronic and electromechanical (EEE) parts is prohibited without Buyer written approval. Product that does not contain any tin (Sn) or tin (Sn) alloys meets the requirements of this Purchase Order (PO) note. Tin Silver Copper (SAC) alloys with less than or equal to 97% tin (Sn) by weight meets the requirements of this Purchase Order (PO) note. Tin-plated electrical wire compliant to applicable military or industrial standards is considered standard and is not restricted.</p>

			<p>Unless otherwise specified by the text of this Purchase Order (PO) note or the Procurement Specification document, the solder, plating and coating of the products supplied on this purchase order shall meet the following pure tin restriction:</p> <ol style="list-style-type: none"> 1. The solder used shall contain a material composition of less than or equal to 97% tin (Sn) by weight and the remainder shall be any combination of silver (Ag) and/or lead (Pb). 2. All plating or coating utilized to manufacture the deliverable hardware shall contain a minimum of 3% lead (Pb) by weight; this includes all associated hardware that is a part of a EEE component. <p>Definitions: Solder: A metal alloy with a melting temperature that is below 427°C [800 °F]. Plating/coating: a thin layer of metal such as tin deposited on or applied to a single surface</p> <p>Examples: electrolytic plating, solder dipped leads, solder dipped housings</p> <p>The Seller shall notify the Buyer prior to any change by the Seller or its Sub-Tier(s) that would result in products specified in this PO becoming noncompliant by incorporating this requirement. Also, notify Buyer if this requirement conflicts with the Engineering specified for products ordered under this PO. Noncompliance to this requirement must be approved in writing from the Buyer prior to acceptance of this PO.</p>
SPC-EN-005	Q	Printed Wire Board (PWB) - Manufacturing IAW Class 3 of IPC 6012, IPC 6013, or IPC 6018	<p>Items delivered under this Purchase Order which contain packaged Printed Wiring Boards (PWB) within the assembly shall be subject to the following:</p> <ol style="list-style-type: none"> 1. Printed wiring board types must be manufactured in accordance with Class 3 of IPC 6012, IPC 6013 or IPC 6018 requirements. 2. Seller shall maintain test/inspection compliance records and provide to Buyer upon request.
SPC-EN-006	Q	Solvent Container - Unused Containers	To prevent contamination by residual material, all solvents shall be supplied only in a new container that has not been previously used.
Documentation and Drawings			
1LM-EN-102	Q	Weight Data	<p>Seller shall weigh each part per engineering requirements or as referenced in the drawing title reference block and provide weight data in English/Metric units as applicable for each item with shipment.</p> <p>Seller shall submit all data and documentation electronically in the Electronic Data Supplier Submittal (EDSS) site prior to each shipment.</p>
Packaging			
SPC-EN-201	Q	Individually Package	Parts shall be individually wrapped, bagged, or otherwise protected when packaged within a larger pack to prevent part-to-part contact/damage during handling, shipment, and storage.

SPC-EN-202		Component Packaging	<p>The parts referenced on this Purchase Order (PO) have been identified as requiring subsequent automated handling. A Tape & Reel configuration shall contain a single lot date code, single part number, and single manufacturer.</p> <p>Components shall be provided in accordance with one of the standard packaging requirements specified below:</p> <ol style="list-style-type: none"> 1. Tape and Reel: Single Part numbers shall be supplied in reeled packaging on the minimum number of reels to satisfy the quantity ordered per the following applicable standard and consist of a Single Manufacturer Lot Date Code. Use the smallest reel possible to accommodate the total PO quantity. <p>NOTE: Tape and Reel Requirement will be defined in the PO line item.</p> <ol style="list-style-type: none"> 2. Surface Mount: Per ECIA EIA-481 on reels no larger than 332mm (13 inches) in diameter. Use the smallest reel possible to accommodate the total PO quantity. One lot date code per reel, tape reel quantity no less than 250 minimum per reel unless the Purchase Order Quantity is less than 250 (in which case the full PO quantity shall be on one reel). Any partial shipments less than 250 require Buyer approval and will be documented in the PO text. 3. Radial Leads: Per ECIA EIA-468 4. Axial Leads: Per ECIA EIA-296 with the following options: <ol style="list-style-type: none"> a) If the maximum body length is less than 13mm or the maximum body diameter/width is less than 5mm, the inside tape spacing shall be 53mm and component pitch shall be 5mm. b) If the body dimensions are greater than above. c) The inside tape spacing shall be any ECIA EIA-296 option, except 26mm shall not be used. d) Component pitch shall be 5 or 10mm. e) Tubes: parts shall be supplied in accordance with JEDEC JEP130. f) Matrix trays: parts shall be supplied in accordance with IEC 60286-5. g) PEM/PED's shall be labeled and packaged in accordance with IPC/JEDEC J-STD-033. PEM/PED's with a Moisture Sensitivity Level (MSL) other than level 1, as defined in IPC/JEDEC J-STD-020 Para 9.a., shall require dry pack in accordance with IPC/JEDEC J-STD-033.
SPC-EN-203	Q	Moisture Sensitive Devices Packaging	<p>This component is considered moisture sensitive and shall be processed, packaged, and identified in accordance with the latest revision of IPC/JEDEC J-STD-020 (moisture/reflow sensitivity classification for nonhermetic solid state surface mount devices) and IPC/JEDEC J-STD-033 (handling, packing, shipping and use of moisture/reflow sensitive surface mount devices).</p>
SPC-EN-204	Q	Kit Packaging	<p>Each part shall be individually kit-packed, with a kit containing all necessary components for assembling a single complete part. For parts made up of multiple components, bulk packaging of components is not allowed.</p>
SPC-EN-205	Q	Printed Wire Board (PWB) Packaging	<p>Seller shall individually package PWBs in accordance with one option listed below:</p> <p style="padding-left: 40px;">Option 1: Sealed dry nitrogen, vapor barrier, ESD bag</p> <p style="padding-left: 40px;">Option 2: Vacuum sealed, vapor barrier, ESD bag containing one activated desiccant bag (MIL-D-3464 Types I and II)</p>

			<p>Seller shall label each individual bag with part number, revision level of drawing, work order number/ lot number, Purchase Order (PO) number, PO item date, date of solderability test, and serial number.</p> <p>Seller shall wrap individually packaged PWBs with anti-static bubble-wrap or form and pack in a shipping container to prevent damage to the sealed bags during shipment.</p> <p>If drawing specified packaging / labeling requirements are present, those requirements shall take precedence over labeling and packaging requirements listed here.</p> <p>If mounts/coupons are required, they shall be bagged separately from the PWB, but may be attached to the PWB bag.</p> <p>Note: Staples shall not be used on the bag.</p>
SPC-EN-206	Q	Caps and Plugs	The supplier shall package connectors with the appropriate caps and plugs to prevent damage during handling, shipment, and storage.
SPC-EN-207	Q	Import/Export Lumber Requirements	<p>This procurement results in an import/export shipment, so if lumber is used as packaging material, then the shipment must comply with 7CFR 319 Subpart I. A certificate of conformance shall accompany the shipment stating compliance to 7CFR 319 Subpart I.</p> <p>Non-compliant shipments will be returned at the supplier's expense.</p>
SPC-EN-208	Q	Special Packaging/Shipping Instructions	<p>Article is considered sensitive and is susceptible to transportation and/or environmental damage.</p> <p>Method of packaging and/or shipping of sensitive articles shall be listed separately under purchase order (PO) text by Buyer. If no method is stated, the Seller's proposed method of packaging and/or shipping of sensitive articles shall be presented to the Buyer and be approved by the Buyer's Quality Engineering prior to initial shipment.</p> <p>Failure to comply with this requirement without prior written authorization will result in the return of the shipment to the Seller at the Seller's expense.</p> <p>This PO note takes precedence over Buyer's Commercial Packaging note (SCQ-SQ-012).</p>
SPC-EN-209	Q	Optics Handling	Optical elements, sub-assemblies and assemblies containing optics shall be wrapped and packaged to avoid damage during shipment including, but not limited to, chips, scratches, stains, surface contamination and breakage.
SPC-EN-210	Q	Ordnance Handling Procedures	<p>Fifteen (15) days prior to shipment of the First Article of a Class 1 Explosive, a drawing or sketch and specification sufficient to inspect, assemble, check out, test, and store this material must be delivered to the Buyer to be provided to the site Environmental Health and Safety team.</p> <ol style="list-style-type: none"> 1. The documentation shall contain the following information: The identity and weight of explosive(s) 2. Maximum sensitivity of the explosive(s) (mechanical, electrical, and/or thermal)

			<ol style="list-style-type: none"> 3. Seller's drawing or part number, lot number, year of manufacture, and serial number of each component as applicable 4. Copy of Seller's Acceptance Test Procedure 5. Department of transportation shipping documents that identify storage and shipping net explosive weight (e.g. Interim Hazard Classification (IHC), Final Hazard Classification (EX-Letter), etc.) <p>Seller's acceptance test procedure shall include:</p> <ol style="list-style-type: none"> 1. Minimum current for "all fire" 2. Maximum current for "no fire" 3. Recommended check out procedure 4. Environmental limitations
SPC-EN-220	Q	Commercial Packaging – ASTM D3951	Preservation, packaging, and packing of all deliverable goods shall be in accordance with the latest revision of ASTM D3951 - "Standard Practice for Commercial Packaging"
SPC-EN-221	Q	Military Packaging – MIL-STD-2073	Preservation, packaging, and packing of all deliverable goods shall be in accordance with the latest revision of MIL-STD-2073 - "Standard Practice for Military Packaging".
SPC-EN-222	Q	Elastomeric Packaging	Preservation, packaging, and packing of all deliverable goods shall be in accordance with the latest revision of SAE AS5316 - "Storage of Elastomer Seals and Seal Assemblies Which Include an Elastomer Element Prior to Hardware Assembly".
SPC-EN-223	Q	Printed Wire Board (PWB) Packaging – IPC-1602	Preservation, packaging, and packing of all deliverable goods shall be in accordance with the latest revision of IPC-1602- "Standard for Printed Board Handling and Storage".
Marking and Identification			
SPC-EN-301	Q	PWB Moisture and Solderability Control Label	<p>PWBs designated as a solderability controlled item shall be labeled with build history including the suffix note and a moisture sensitivity identification label.</p> <p>The following build history and notes shall be included on label:</p> <ol style="list-style-type: none"> 1. Purchase Order number 2. Part number and revision 3. Lot number and date code 4. Serial number 5. Final finish date 6. Date of solderability test and/or retest date 7. "Do not open until use Note: Retain packaging intact during storage." 8. Type of bag used, either nitrogen purged or vacuum sealed <p>The suffix note on the label shall bold the actual bagging method used.</p> <p>The label shall conform to the latest revision of JSTD-033.</p>
SPC-EN-302	Q	Raw Material Marking Requirements	Each piece of material, in addition to normal mil-spec requirements, must be marked with the following information:

			<ol style="list-style-type: none"> 1. Lockheed Martin Part Number 2. Purchase order number 3. Heat lot number 4. Material type (ex. 6061-t6) <p>The marking material used must be of a type that is permanent under normal handling.</p> <p>The marking must be located at the top corner of flat stock and on the end of bars or rods.</p> <p>If this is not possible due to size restraint, each piece must be tagged with the required information.</p>
Electrostatic Discharge			
SPC-EN-401	Q	Electrostatic Discharge protection Packaging	<p>Devices delivered under this Contract are Electrostatic Sensitive. The Seller shall assure that devices delivered are packaged to provide electrostatic protection and identified as ESD in accordance with applicable specification.</p> <p>Seller shall package electronic hardware, which is sensitive to ESD, to protect sensitive items during shipment and storage. Seller shall cover external connectors on equipment containing ESD-sensitive hardware with conductive caps. The caps shall be black and have a maximum surface resistivity of 10E5 OHMS per square. Metal caps are also acceptable. Seller shall mark part number and serial number on the outside of each package.</p> <p>Additional information on ESD can be found on the Electrostatic Discharge Association website located at http://www.esda.org. That website includes information on static control procedures and materials, how to eliminate and reduce generation, dissipate and neutralize charges, and protect sensitive products from ESD.</p>
SPC-EN-402	Q	Electrostatic Discharge Protection Packaging - High Reliability	<p>Electrostatic discharge sensitive (ESDS) articles shall be manufactured, tested, packaged, and shipped in an environment that assures protection of the device and meets ANSI ESD S20.20 or equivalent. Packaging material and containers shall be in accordance with ANSI ESD S541. The Seller shall clearly identify ESDS articles in accordance with ANSI ESD S20.20 to indicate that the package contains electrostatic sensitive goods. Static dissipative material or anti-static material shall not be used as static shielding (primary) packaging material.</p> <p>Electrical parts that may be used or shipped in conjunction with ESD sensitive parts shall be treated as ESD sensitive.</p> <p>Note: Polyethylene Plastic material such as Pink Poly material shall not be used as packaging material in direct contact with components or, for example as an insert in waffle packs or trays. This material is not adequate protection for ESD sensitive devices.</p> <p>Note: "Pink Poly" is a term commonly used to refer to polyethylene plastic treated with an antistatic agent. This PO note takes precedence over Buyer's Packaging Autoflow (SCQ-SQ-010).</p>

IN - INSPECTION			
Source Inspection			
SPC-IN-001	Q	Source Inspection Required	<p>All articles are subject to buyer source inspection, which shall be conducted prior to the shipment of the article. The buyer reserves the right to perform or witness tests on all articles or a representative sample. If an article fails the source inspection, it may result in the rejection of the entire lot quantity. In the event of a failure, the seller is responsible for re-inspecting and/or reprocessing the lot to eliminate any failures. The seller is also required to submit a report to Lockheed Martin identifying all causes of the failure.</p> <p>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.</p> <p>The supplier shall use EXOSTAR to arrange source inspection. The supplier may view a source inspection request process document using the following link:</p> <p>https://www.myexostar.com/?ht_kb=imp2p-training-resources</p> <p>Desired inspection date</p> <ul style="list-style-type: none"> o Request 10 working days before planned inspection <ul style="list-style-type: none"> • Purchase Order • Purchase Order Line • Quantity <p>Material/content that should be made available to the source inspector at the time of source inspection (if applicable):</p> <ul style="list-style-type: none"> • Material to be inspected • Most recent first article • Drawings • Specifications • Procedures • Statement of Work • Customer's Purchase Order • Test software • Material certifications • Previous inspection evidence • Acceptance test report(s) • Other material/content as agreed upon by both parties <p>Buyer reserves the right to perform, add, or modify in-process inspection, in-process surveillance and/or audits at any time during the life of the PO. Such inspections, tests and mandatory inspection points (MIPs) can be identified during the PO review or acceptance process, and failure to comply with agreed upon MIPs with the Buyer's Supplier Quality shall be cause for rejection of completed end items.</p>

SPC-IN-002	Q	Government Source Inspection	<p>The hardware listed in this purchase order has mandatory government source inspection requirements. Upon receipt of this purchase order, the seller shall promptly notify the Government's Representative assigned to the supplier's facility. If a Government Representative does not normally service the supplier's facility or you cannot reach a Government Representative, the Seller should immediately notify the Lockheed Martin Buyer.</p> <p>The Seller must inform the Government Representative's office according to the agreed-upon schedule with the Government Representative, when the items or materials are available for inspection or test. The seller shall make available to the Government Representative all applicable drawings, specifications, procedures, statements of work, purchase order, test software, and changes thereto, related inspection and/or test equipment, and any other information as may be required to satisfactorily perform the inspections and tests required under this order.</p> <p>Government inspections will be determined by the Government Representative and may be conducted during processing, fabrication, or final inspection. The specifics and scope of the inspections should be agreed upon by the Government Representative. The Seller shall 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.</p> <p>The seller will provide immediate notice to the Buyer of any Government-issued corrective action reports, notices or requests, as well as any Government-issued rejection notices.</p> <p>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.</p>
SPC-IN-003	Q	In-Process Inspection	<p>Material delivered against this purchase order requires oversight performed by a Buyer representative via in-process inspection. Seller shall partner with the Buyer under the guidelines of the in-process inspection scope. Activities may include the following but is not limited to:</p> <ul style="list-style-type: none"> • Lean Six Sigma/6S/FOD Control Assessment • Pre-cap inspection • Mandatory Inspection Points • Other agreed upon inspections <p>Buyer reserves the right to perform in-process inspection activities at Seller's facility and/or Seller's Sub-tiers as agreed upon by both parties. Buyer and Seller shall develop a schedule and activities that are mutually acceptable to both parties. Schedule and activities may be subject to change depending on program requirements, personnel schedules, findings, supplier needs, etc. All changes will be coordinated in advance.</p>
SPC-IN-004	Q	IN-PROCESS VISUAL WELD INSPECTION	<p>Material delivered against this purchase order requires a visual weld inspection performed by a Buyer representative. This inspection shall occur prior to any coating.</p>

			<p>Seller shall notify the Buyer 10 working days in advance of each established visual weld 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.</p> <p>Buyer reserves the right to perform in-process inspection activities at Seller's facility and/or Seller's Sub-tiers as agreed upon by both parties. Buyer and Seller shall develop a schedule and activities that are mutually acceptable to both parties. Schedule and activities may be subject to change depending on program requirements, personnel schedules, findings, supplier needs, etc. All changes will be coordinated in advance.</p>
SPC-IN-005	Q	Precap Inspection	<p>Material delivered against this purchase order requires a Pre-Cap inspection performed by a Buyer representative. A Pre-Cap inspection point shall be identified by the Seller prior to beginning work. A typical Pre-Cap inspection point occurs prior to permanently sealing an enclosed space.</p> <p>Seller shall notify the Buyer ten 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.</p> <p>Buyer reserves the right to perform in-process inspection activities at Seller's facility and/or Seller's Sub-tiers as agreed upon by both parties. Buyer and Seller shall develop a schedule and activities that are mutually acceptable to both parties. Schedule and activities may be subject to change depending on program requirements, personnel schedules, findings, supplier needs, etc. All changes will be coordinated in advance.</p>
SPC-IN-006	Q	Production Part Approval Process - PPAP	<p>This product requires the Seller to submit a Level 4 PPAP meeting Automotive Industry Action Group (AIAG) manual requirements for the first validation of production line parts, in addition to any other inspection requirements elsewhere in this Purchase Order (PO).</p> <p>All resources defining the Seller's process in accordance with the PPAP, and all associated documentation submitted to the Seller, shall be in accordance with the latest version of the AIAG manuals. In-house documentation formats are acceptable when following the requirements of the latest version of the AIAG manual.</p> <p>The Seller shall submit as minimum requirements unless otherwise specified by the Buyer:</p> <ul style="list-style-type: none"> • Ballooned Drawing, • Drawing dimensional characteristics and notes, • Material and Performance test results, and • Part Submission Warrant (PSW)

			<p>The Seller shall provide sample product, if specified by the Buyer. In the case of Seller acting as Distributor, Seller shall create a new PSW with the Distributor information per Purchase Order requirements. OEM's PSW approved by Distributor shall be submitted as part of PPAP package to Lockheed Martin (LM).</p> <p>After initial validation, if any changes to the process(es) are planned or have occurred, the Seller shall contact Lockheed Martin for PPAP re-submittal. Reference this PO note for more information.</p> <p>Changes must be communicated to LM in advance. Actions associated with changes shall require a new Full (complete) or Partial (addressing changes) PPAP as a contractual obligation, stated herein and in the SPC-SQ-006 Supplier Process Change Control and Notification Requirements.</p> <p>The Seller shall complete the Part Submission Warrant (PSW) and a copy of this document shall be provided with every shipment for each corresponding part number. If a non-conformance is found within the PPAP submission, Buyer may issue a deviation/waiver for the requirement. If deviation/waiver is not feasible, inspection lot/PPAP will be rejected and shipments are not allowed. Seller is responsible to correct and re-submit the PPAP package, PPAP re-submission is required to obtain status of "Approved"</p> <p>The Supplier shall submit a PPAP package including a Part Submission Warrant for approval prior to the first production shipment and when any of the following changes are planned or have occurred:</p> <ol style="list-style-type: none"> 1. Use of other construction or material than was used in the previously approved part or product. 2. Production from new or modified tools (except perishable tools), dies, molds patterns, etc. including additional or replacement tooling. 3. Production following upgrade or movement of existing tooling or equipment. 4. Production from tooling and equipment transferred to or from a different plant site. 5. Change of supplier for parts, materials, or services (e.g., heat-treating, plating). 6. Product produced after the tooling has been inactive for volume production for 12 months or greater. 7. Product and process changes related to components of the production product manufactured internally or manufactured by sub-tier suppliers. 8. Change in test/inspection method - new technique (no effect on acceptance criteria). 9. Bulk material: new source of raw material from new or existing supplier and change in product appearance attributes. 10. Engineering change to design records, specifications, or materials for production product/part numbers. 11. Movement or change of process, movement of work to another site, part or material changes including those directed by Buyer. 12. Changes in the Make/buy of components or subassemblies. <p>If any part specifications cannot be met, the Seller shall document their problem-solving efforts and shall contact the authorized customer representative for concurrence in determination of appropriate corrective action.</p> <p>PPAP Submittal documentation shall be submitted electronically using ship to module via Exostar prior to shipment. You must log into your Exostar account at: TBD. The Seller is responsible for assuring objective</p>
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			<p>evidence is retained for all information provided electronically. Material received by the Buyer without PPAP approval will be rejected and returned to the Seller at the Seller's expense.</p> <p>A request to conduct New or Partial PPAP must be received at least (10) working days in advance of the planned inspection to allow for Buyer's participation if required.</p>
SPC-IN-021	Q	First Piece 100% Inspection - Report	Seller shall perform 100% detailed/dimensional inspection on the first completed item, 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.
SPC-IN-022	Q	All Units - 100% Inspection - Report	Seller shall perform 100% detailed/dimensional inspection for all items, 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.
First Article			
SPC-IN-101	Q	First Article Requirement – Standard	<p>A Buyer First Article Inspection (FAI) is required on this product in addition to any other inspection requirements elsewhere in this Purchase Order (PO). The FAI shall be approved by the Buyer's Quality Representative prior to the shipment of the material.</p> <p>A request to conduct New or Partial/Delta First Article Inspection must be received at least (10) working days in advance of the planned inspection to allow for Buyer's participation if required.</p> <p>FAI shall be performed by the Seller in accordance with the latest revision of Aerospace Standard AS9102. Seller shall utilize the current AS9102 forms, or equivalent, including:</p> <ul style="list-style-type: none"> Form 1 - Part Number Accountability Form 2 - Product Accountability - Materials, Special Processes, and Functional Testing Form 3 - Characteristic Accountability, Verification, and Compatibility Evaluation <p>Seller shall be required to perform a new FAI when there is a lapse in production exceeding twenty four (24) months. Any changes or deviations as defined in AS9102 shall require a full or partial (delta) FAI. In addition, all design or process changes shall require a full or partial delta (FAI).</p> <p>Changes must be communicated to Buyer in advance. Actions associated with changes shall require a new Full (complete) or Partial (addressing changes) FAI as a contractual obligation, stated herein.</p> <p>FAI does not relieve the Seller of responsibility of nonconforming hardware found at the Buyer's facility. For any questions, contact the Buyer.</p> <p>Documentation: 1. Buyer's Quality Representative shall review the AS9102, Form 1 (Part Number Accountability) or equivalent for completeness, verify legibility; print name, sign/stamp/electronic signature and date appropriate blocks as evidence of Buyer's acceptance.</p>

			<ol style="list-style-type: none"> 1. For the initial shipments requiring a new or partial (delta) FAI, the Seller shall upload an electronic copy of the Buyer's approved AS9102 with the hardware delivery. 2. For subsequent shipments, the Seller shall upload an electronic copy of the Buyer's previously approved AS9102, Form 1 with each hardware delivery no sooner than 120 days prior to the PO delivery date for each line item. <ol style="list-style-type: none"> 1. FAI is required for all the part/assembly number(s) included on this PO line item with no exception. Note: When a drawing for an assembly includes a parts list and/or sub-assembly drawings, all revision levels shall be included and validated on the AS9102, Form 1. 2. Certificate of Conformances (CoC) for special processes included in the FAI package must include a complete list of associated specification requirements and results. CoCs attesting solely to conformity without detail and rationale will result in a rejection of the Seller's FAI. 3. FAI is required for sub-assemblies and detail parts that make up the configuration item(s) included on this PO, with the following exceptions: <ol style="list-style-type: none"> 5.a Seller Design Authority: For sub-assemblies and/or detail parts where the Seller has design authority, FAI requirements shall be defined in the Statement of Requirements (SOR). 5.b Catalog and Commercial Off-the-Shelf: If the part number, as listed on this PO, is for a Buyer or Seller designed product that has a standard catalog or commercial off-the-shelf hardware, as defined by AS9102, included at sub-assembly levels, then FAI is not required for the standard catalog or commercial off-the-shelf parts/assemblies.
SPC-IN-102	Q	First Article Requirement - 12 Months	<p>A Buyer First Article Inspection (FAI) is required on this product in addition to any other inspection requirements elsewhere in this Purchase Order (PO). The FAI shall be approved by the Buyer's Quality Representative prior to the shipment of the material.</p> <p>A request to conduct New or Partial/Delta First Article Inspection must be received at least (10) working days in advance of the planned inspection to allow for Buyer's participation if required.</p> <p>FAI shall be performed by the Seller in accordance with the latest revision of Aerospace Standard AS9102. Seller shall utilize the current AS9102 forms, or equivalent, including:</p> <ul style="list-style-type: none"> Form 1 - Part Number Accountability Form 2 - Product Accountability - Materials, Special Processes, and Functional Testing Form 3 - Characteristic Accountability, Verification, and Compatibility Evaluation <p>Seller shall be required to perform a new FAI when there is a lapse in production exceeding twelve (12) months. Any changes or deviations as defined in AS9102 shall require a full or partial (delta) FAI. In addition, all design or process changes shall require a full or partial delta (FAI).</p>

			<p>Changes must be communicated to Buyer in advance. Actions associated with changes shall require a new Full (complete) or Partial (addressing changes) FAI as a contractual obligation, stated herein.</p> <p>FAI does not relieve the Seller of responsibility of nonconforming hardware found at the Buyer's facility. For any questions, contact the Buyer or the 1LM Supplier Helpdesk at xxx-xxx-xxxx.</p> <p>Documentation: Buyer's Quality Representative shall review the AS9102, Form 1 (Part Number Accountability) or equivalent for completeness, verify legibility; print name, sign/stamp/electronic signature and date appropriate blocks as evidence of Buyer's acceptance.</p> <p>For the initial shipments requiring a new or partial (delta) FAI, the Seller shall upload an electronic copy of the Buyer's approved AS9102 with the hardware delivery.</p> <p>For subsequent shipments, the Seller shall upload an electronic copy of the Buyer's previously approved AS9102, Form 1 with each hardware delivery no sooner than 120 days prior to the PO delivery date for each line item.</p> <ol style="list-style-type: none"> 1. FAI is required for all the part/assembly number(s) included on this PO line item with no exception. Note: When a drawing for an assembly includes a parts list and/or sub-assembly drawings, all revision levels shall be included and validated on the AS9102, Form 1. 2. Certificate of Conformances (CoC) for special processes included in the FAI package must include a complete list of associated specification requirements and results. CoCs attesting solely to conformity without detail and rationale will result in a rejection of the Seller's FAI. 3. FAI is required for sub-assemblies and detail parts that make up the configuration item(s) included on this PO, with the following exceptions: <p>Seller Design Authority: For sub-assemblies and/or detail parts where the Seller has design authority, FAI requirements shall be defined in the Statement of Requirements (SOR).</p> <p>Catalog and Commercial Off-the-Shelf: If the part number, as listed on this PO, is for a Buyer or Seller designed product that has a standard catalog or commercial off-the-shelf hardware, as defined by AS9102, included at sub-assembly levels, then FAI is not required for the standard catalog or commercial off-the-shelf parts/assemblies.</p>
SPC-IN-104	Q	First Article Inspection - 12 Months with Refresh	<p>In order to revalidate that product realization processes are capable of producing parts and assemblies that meet engineering and design requirements, the Seller shall perform a new full FAI IAW AS9102 if a three (3) year lapse has occurred since the most recently approved full FAI.</p> <p>A Buyer First Article Inspection (FAI) is required on this product in addition to any other inspection requirements elsewhere in this Purchase Order (PO). The FAI shall be approved by the Buyer's Quality Representative prior to the shipment of the material.</p>

			<p>A request to conduct New or Partial/Delta First Article Inspection must be received at least (10) working days in advance of the planned inspection to allow for Buyer's participation if required.</p> <p>FAI shall be performed by the Seller in accordance with the latest revision of Aerospace Standard AS9102. Seller shall utilize the current AS9102 forms, or equivalent, including:</p> <ul style="list-style-type: none"> Form 1 - Part Number Accountability Form 2 - Product Accountability - Materials, Special Processes and Functional Testing Form 3 - Characteristic Accountability, Verification and Compatibility Evaluation <p>Seller shall be required to perform a new FAI when there is a lapse in production exceeding twelve (12) months. Any changes or deviations as defined in AS9102 shall require a full or partial (delta) FAI. In addition, all design or process changes shall require a full or partial delta (FAI).</p> <p>Changes must be communicated to Buyer in advance. Actions associated with changes shall require a new Full (complete) or Partial (addressing changes) FAI as a contractual obligation, stated herein.</p> <p>FAI does not relieve the Seller of responsibility of nonconforming hardware found at the Buyer's facility. For any questions, contact the Buyer.</p> <p>Documentation:</p> <p>Buyer's Quality Representative shall review the AS9102, Form 1 (Part Number Accountability) or equivalent for completeness, verify legibility; print name, sign/stamp/electronic signature and date appropriate blocks as evidence of Buyer's acceptance.</p> <p>For the initial shipments requiring a new or partial (delta) FAI, the Seller shall upload an electronic copy of the Buyer's approved AS9102 with the hardware delivery.</p> <p>For subsequent shipments, the Seller shall upload an electronic copy of the Buyer's previously approved AS9102, Form 1 with each hardware delivery no sooner than 120 days prior to the PO delivery date for each line item.</p> <ol style="list-style-type: none"> 1. FAI is required for all the part/assembly number(s) included on this PO line item with no exception. Note: When a drawing for an assembly includes a parts list and/or sub-assembly drawings, all revision levels shall be included and validated on the AS9102, Form 1. 2. Certificate of Conformances (CoC) for special processes included in the FAI package must include a complete list of associated specification requirements and results. CoCs attesting solely to conformity without detail and rationale will result in a rejection of the Seller's FAI. 3. FAI is required for sub-assemblies and detail parts that make up the configuration item(s) included on this PO, with the following exceptions:
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			<p>Seller Design Authority: For sub-assemblies and/or detail parts where the Seller has design authority, FAI requirements shall be defined in the Statement of Requirements (SOR).</p> <p>Catalog and Commercial Off-the-Shelf: If the part number, as listed on this PO, is for a Buyer or Seller designed product that has a standard catalog or commercial off-the-shelf hardware, as defined by AS9102, included at sub-assembly levels, then FAI is not required for the standard catalog or commercial off-the-shelf parts/assemblies.</p>
SPC-IN-104	Q	First Article Inspection - 24 Months with Refresh	<p>In order to revalidate that product realization processes are capable of producing parts and assemblies that meet engineering and design requirements, the Seller shall perform a new full FAI IAW AS9102 if a three (3) year lapse has occurred since the most recently approved full FAI.</p> <p>A Buyer First Article Inspection (FAI) is required on this product in addition to any other inspection requirements elsewhere in this Purchase Order (PO). The FAI shall be approved by the Buyer's Quality Representative prior to the shipment of the material.</p> <p>A request to conduct New or Partial/Delta First Article Inspection must be received at least (10) working days in advance of the planned inspection to allow for Buyer's participation if required.</p> <p>FAI shall be performed by the Seller in accordance with the latest revision of Aerospace Standard AS9102. Seller shall utilize the current AS9102 forms, or equivalent, including:</p> <ul style="list-style-type: none"> Form 1 - Part Number Accountability Form 2 - Product Accountability - Materials, Special Processes and Functional Testing Form 3 - Characteristic Accountability, Verification and Compatibility Evaluation <p>Seller shall be required to perform a new FAI when there is a lapse in production exceeding twenty-four (24) months. Any changes or deviations as defined in AS9102 shall require a full or partial (delta) FAI. In addition, all design or process changes shall require a full or partial delta (FAI).</p> <p>Changes must be communicated to Buyer in advance. Actions associated with changes shall require a new Full (complete) or Partial (addressing changes) FAI as a contractual obligation, stated herein. FAI does not relieve the Seller of responsibility of nonconforming hardware found at the Buyer's facility. For any questions, contact the Buyer.</p> <p>Documentation: Buyer's Quality Representative shall review the AS9102, Form 1 (Part Number Accountability) or equivalent for completeness, verify legibility; print name, sign/stamp/electronic signature and date appropriate blocks as evidence of Buyer's acceptance.</p>

			<p>For the initial shipments requiring a new or partial (delta) FAI, the Seller shall upload an electronic copy of the Buyer's approved AS9102 with the hardware delivery.</p> <p>For subsequent shipments, the Seller shall upload an electronic copy of the Buyer's previously approved AS9102, Form 1 with each hardware delivery no sooner than 120 days prior to the PO delivery date for each line item.</p> <ol style="list-style-type: none"> 1. FAI is required for all the part/assembly number(s) included on this PO line item with no exception. Note: When a drawing for an assembly includes a parts list and/or sub-assembly drawings, all revision levels shall be included and validated on the AS9102, Form 1. 2. Certificate of Conformances (CoC) for special processes included in the FAI package must include a complete list of associated specification requirements and results. CoCs attesting solely to conformity without detail and rationale will result in a rejection of the Seller's FAI. 3. FAI is required for sub-assemblies and detail parts that make up the configuration item(s) included on this PO, with the following exceptions: <p>Seller Design Authority: For sub-assemblies and/or detail parts where the Seller has design authority, FAI requirements shall be defined in the Statement of Requirements (SOR).</p> <p>Catalog and Commercial Off-the-Shelf: If the part number, as listed on this PO, is for a Buyer or Seller designed product that has a standard catalog or commercial off-the-shelf hardware, as defined by AS9102, included at sub-assembly levels, then FAI is not required for the standard catalog or commercial off-the-shelf parts/assemblies.</p>
TR – Traceability			
Produce Identification			
SPC-TR-001	Q	Serial Number Traceability – Seller	<p>Serial number traceability is required for this Purchase Order. Serial number schemes shall be developed, controlled, and implemented by the Seller.</p> <p>Each deliverable part, assembly or end item shall be serialized. Serial numbers shall be unique for each part and must be used once only, for this or any follow-on orders. Each delivered part shall have the serial number marked in a conspicuous location on the part, unless otherwise specified by Seller.</p> <p>The seller shall use any additional part marking requirements to format and apply the serial number marking on the parts.</p> <p>The Ship-to module shall be used to enter serial number traceability for the Purchase Order Line item to be shipped.</p>
SPC-TR-002	Q	Serial Number Traceability – Buyer	<p>Serial number traceability is required for this Purchase Order. Serial number schemes shall be developed, controlled, and implemented by the Buyer, unless otherwise specified.</p>

			<p>Serial numbers shall be unique for each part and must be used once only, for this or any follow-on orders. Each delivered part shall have the serial number marked in a conspicuous location on the part, unless otherwise specified by the Buyer.</p> <p>The Seller shall use any additional part marking requirements to format and apply the serial number marking on the parts.</p> <p>The Ship-to module shall be used to enter serial number traceability for the Purchase Order Line item to be shipped.</p>
SPC-TR-010	Q	Item Unique Identifier (UID) - MIL-STD-130	<p>Supplier shall create a UID label and attach to the material if the capability exists. The UID label information shall consist of the following information: Part number, date code and/or serial number, and cage code per MIL-STD-130N. Install UID label on front of item if possible.</p>
SPC-TR-011	Q	Item Unique Identifier (UID) - Data Submittal	<p>Material delivered for this Purchase Order (PO) shall meet the unique identification of tangible assets requirements per the specification requirements as designated on the Buyer's engineering drawing. The electronic file shall also include all embedded UID information.</p> <p>A copy of the electronic file template is located at: https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/mfc.html</p> <p>For all shipments, the Seller shall submit an electronic file containing the UID information to the following email address: uid-admin.fc-mfc-dal@lmco.com prior to shipment.</p> <p>Seller shall ensure that the materials furnished to Buyer are in conformance with applicable requirements for UID identification as specified on the engineering drawings and that supporting documentation is on file and made available to Buyer or Government Representatives upon request. Seller shall ensure the UID label includes the following information as defined on the engineering drawing:</p> <ol style="list-style-type: none"> 1. Name of Seller 2. Quantity shipped 3. Purchase Order number 4. Concatenated unique item identifier or DOD recognized unique identification equivalent per DFARS 252.211-7003. 5. Unique item identifier type 6. Issuing agency code (if concatenated unique item identifier is used) 7. Enterprise identifier (if concatenated unique item identifier is used) 8. Original part number 9. Lot or batch number 10. Current part number (if not the same as the original part number) 11. Current part number effective date 12. Serial number

			<p>13. UID verification marking complies with minimum print quality per ISO/IEC 15415 and/or 15416. Seller shall submit a verification report electronically using the P2P Ship To module via Exostar (https://portal.exostar.com) prior to each shipment.</p> <p>14. UID validation</p> <p>Material defined in this purchase order is subject to Buyer's inspection at destination. Additional information on UID may be viewed at: http://www.acq.osd.mil/dpap/sitemap.html</p>
SPC-TR-012	Q	Item Unique Identifier (IUID) - DFARS 252.211-7003	Unique identification marking in accordance with the latest version of MIL-STD-130 is required and the development of specific item marking requirements shall be based on the criteria provided in the standard. The UID policy, with associated guidance, is available at http://www.acq.osd.mil/ and then select defense procurement acquisition policy for unique identification information.
Lot / Batch / Date Code			
SPC-TR-101	Q	Date of Manufacture Required	The Seller shall upload the date of manufacture at the time of shipment. The Ship-to module will have a data collection location available for the date of manufacture to be uploaded using a date field. If a shipment contains material from multiple dates of manufacture, each date shall be uploaded into the system.
SPC-TR-102	Q	Cure Date Required	The Seller shall upload the cure date at the time of shipment. The Ship-to module will have a data collection location available for the cure date to be uploaded using a date field. If a shipment contains material from multiple cure dates, each date shall be uploaded into the system.
SPC-TR-103	Q	Lot Date Code Required	The Seller shall upload the lot number / date code at the time of shipment. The Ship-to module will have a data collection location available for the lot number / date code to be uploaded. If a shipment contains material from multiple lot numbers / date codes, each lot number / date code shall be uploaded into the system.
SPC-TR-104	Q	Single Lot Date Code	<ol style="list-style-type: none"> 1. All parts supplied to this order must be from a single date of manufacture or assembly date code. Additionally, if batch or heat treatment processes are required, each shipment must be supplied from the same lot, batch, or heat treat lot. 2. The full quantity of the delivery schedule line item must be supplied at once. If partial quantities must be shipped, buyer approval must be granted in writing prior to shipping. 3. In case of exception, mixed lot/date codes require written authorization from the buyer, which must be provided with the shipping document. 4. If mixed lot/date/batch codes are authorized, the shipping document must list individual lot/date/batch codes and quantity. The individual part containers should also be marked with the quantity and lot/date code. Multiple lot/date codes shall not be co-mingled. 5. If mixed lot/date/batch codes are authorized, no single lot shall be smaller than twenty (20) units. If the delivery line item is less than twenty (20) units then all units must be supplied at once.
SPC-TR-105	Q	Single Lot Date Code - Semiconductor Wafer	<ol style="list-style-type: none"> 1. All parts supplied to this order must be from a single date of manufacture and from a single semiconductor wafer. Additionally, if batch or heat treatment processes are required, each shipment must be supplied from the same lot, batch, or heat treat lot. 2. The full quantity of the delivery schedule line item must be supplied at once. If partial quantities must be shipped, buyer approval must be granted in writing prior to shipping. 3. In case of exception, mixed lot/date codes require written authorization from the buyer, which must be provided with the shipping document.

			<p>4. If mixed lot/date/batch codes are authorized, the shipping document must list individual lot/date/batch codes and quantity. The individual part containers should also be marked with the quantity and lot/date code. Multiple lot/date codes shall not be co-mingled.</p> <p>5. If mixed lot/date/batch codes are authorized, no single lot shall be smaller than twenty (20) units. If the delivery line item is less than twenty (20) units then all units must be supplied at once.</p>
SPC-TR-106	Q	Lot/Batch/Heat Traceability	The Seller shall upload the lot number / date code at the time of shipment. The Ship-to module will have a data collection location available for the lot number / date code to be uploaded. If a shipment contains material from multiple lot numbers / date codes, each lot number / date code shall be uploaded into the system.
SPC-TR-121	Q	Date Code limit one year	<p>All parts or material supplied on this Purchase Order shall have a manufactured lot number / date code or date of manufacture that is within 1 year of receipt by Buyer. Manufactured lot number / date code or date of manufacture must be indicated on either parts / material or documentation provided and marked or labeled as such. Parts or material with manufactured lot number / date code or date of manufacture older than 1 year's documents shall be reviewed and approved by Buyer's Quality Representative prior to shipping of deliverable hardware.</p> <p>The Seller shall upload the lot number / date code at the time of shipment. The Ship-to module will have a data collection location available for the lot number / date code to be uploaded. If a shipment contains material from multiple lot numbers / date codes, each lot number / date code shall be uploaded into the system.</p>
SPC-TR-122	Q	Date Code limit two years	<p>All parts or material supplied on this Purchase Order shall have a manufactured lot number / date code or date of manufacture that is within 2 year of receipt by Buyer. Manufactured lot number / date code or date of manufacture must be indicated on either parts / material or documentation provided and marked or labeled as such. Parts or material with manufactured lot number / date code or date of manufacture older than 2 year's documents shall be reviewed and approved by Buyer's Quality Representative prior to shipping of deliverable hardware.</p> <p>The Seller shall upload the lot number / date code at the time of shipment. The Ship-to module will have a data collection location available for the lot number / date code to be uploaded. If a shipment contains material from multiple lot numbers / date codes, each lot number / date code shall be uploaded into the system.</p>
SPC-TR-124	Q	Date Code Limit Four years	<p>All parts or material supplied on this Purchase Order shall have a manufactured lot number / date code or date of manufacture that is within 4 year of receipt by Buyer. Manufactured lot number / date code or date of manufacture must be indicated on either parts / material or documentation provided and marked or labeled as such. Parts or material with manufactured lot number / date code or date of manufacture older than 4 year's documents shall be reviewed and approved by Buyer's Quality Representative prior to shipping of deliverable hardware.</p> <p>The Seller shall upload the lot number / date code at the time of shipment. The Ship-to module will have a data collection location available for the lot number / date code to be uploaded. If a shipment contains material from multiple lot numbers / date codes, each lot number / date code shall be uploaded into the system.</p>
SPC-TR-125	Q	Date Code Limit Five Years	All parts or material supplied on this Purchase Order shall have a manufactured lot number / date code or date of manufacture that is within 5 year of receipt by Buyer. Manufactured lot number / date code or date of manufacture must be indicated on either parts / material or documentation provided and marked or labeled as such. Parts or material with manufactured lot number / date code or date of manufacture older than 5 year's

			<p>documents shall be reviewed and approved by Buyer's Quality Representative prior to shipping of deliverable hardware.</p> <p>The Seller shall upload the lot number / date code at the time of shipment. The Ship-to module will have a data collection location available for the lot number / date code to be uploaded. If a shipment contains material from multiple lot numbers / date codes, each lot number / date code shall be uploaded into the system.</p>
SPC-TR-126	Q	Date Code Limit Six Years	<p>All parts or material supplied on this Purchase Order shall have a manufactured lot number / date code or date of manufacture that is within 6 year of receipt by Buyer. Manufactured lot number / date code or date of manufacture must be indicated on either parts / material or documentation provided and marked or labeled as such. Parts or material with manufactured lot number / date code or date of manufacture older than 6 year's documents shall be reviewed and approved by Buyer's Quality Representative prior to shipping of deliverable hardware.</p> <p>The Seller shall upload the lot number / date code at the time of shipment. The Ship-to module will have a data collection location available for the lot number / date code to be uploaded. If a shipment contains material from multiple lot numbers / date codes, each lot number / date code shall be uploaded into the system.</p>
SPC-TR-127	Q	Date Code Limit Seven Years	<p>All parts or material supplied on this Purchase Order shall have a manufactured lot number / date code or date of manufacture that is within 7 year of receipt by Buyer. Manufactured lot number / date code or date of manufacture must be indicated on either parts / material or documentation provided and marked or labeled as such. Parts or material with manufactured lot number / date code or date of manufacture older than 7 year's documents shall be reviewed and approved by Buyer's Quality Representative prior to shipping of deliverable hardware.</p> <p>The Seller shall upload the lot number / date code at the time of shipment. The Ship-to module will have a data collection location available for the lot number / date code to be uploaded. If a shipment contains material from multiple lot numbers / date codes, each lot number / date code shall be uploaded into the system.</p>
SPC-TR-130	Q	Date Code Limit Ten Years	<p>All parts or material supplied on this Purchase Order shall have a manufactured lot number / date code or date of manufacture that is within 10 year of receipt by Buyer. Manufactured lot number / date code or date of manufacture must be indicated on either parts / material or documentation provided and marked or labeled as such. Parts or material with manufactured lot number / date code or date of manufacture older than 10 year's documents shall be reviewed and approved by Buyer's Quality Representative prior to shipping of deliverable hardware.</p> <p>The Seller shall upload the lot number / date code at the time of shipment. The Ship-to module will have a data collection location available for the lot number / date code to be uploaded. If a shipment contains material from multiple lot numbers / date codes, each lot number / date code shall be uploaded into the system.</p>
Shelf Life			
SPC-TR-201	Q	Control of Shelf Life or Perishable Materials	<p>Shipment Shall contain OEM Documentation defining shelf life requirements below</p> <p>Seller shall identify the outer shipping container, packing slip, and all unit packages with the shelf life requirements such as:</p>

			<p>- "Shelf Life Material" or "Perishable Material"</p> <p>- Storage Limitations (e.g.; maximum/minimum storage environments such as temperature, humidity, etc.).</p> <p>- Expiration date</p> <p>- Date representing beginning of Shelf life</p> <p>Materials with unlimited shelf life shall be marked as 'Unlimited'.</p> <p>The order of precedence for determination of requirements follows:</p> <p>Purchase Order</p> <p>Buyer's specification</p> <p>MIL/Federal specification</p> <p>Manufacturer's specification/recommendation for shelf life</p> <p>At least 70% of the shelf life shall remain at the time of receipt for items with a designated shelf life of over six months. At least 80% of the shelf life shall remain at the time of receipt for items with a designated shelf life of six (6) months or less.</p>
SPC-TR-202	Q	Expiration Date Required	The Seller shall upload the expiration date at the time of shipment. The Ship-to module will have a data collection location available for the expiration date to be uploaded using a date field. If a shipment contains material from multiple expiration dates, each date shall be uploaded into the system.
SPC-TR-203	Q	Shelf Life Control for Seller Managed	<p>The Seller shall not exceed the Manufacturer's shelf life requirements for age, temperature, or other specified storage limitations for sensitive chemicals or components consumed in the manufacturing of the Buyer's products.</p> <p>The Seller is prohibited from establishing alternative processes intended to deviate from the Manufacturer's prescribed shelf life requirements. Recertification testing of expired chemicals may be performed IAW Manufacturer's specifications.</p>
SPC-TR-204	Q	Control of Time and Temperature Sensitive Material	<p>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.</p> <p>*Note: If packaging dimensions do not allow for minimum one-inch text, apply largest text possible.</p>

Certificate of Conformance			
SPC-TR-301		Certificate of Conformance - Standard	<p>Seller shall submit a signed/stamped (electronic) and dated Certificate of Conformance (C of C) with each shipment using Electronic Data Supplier Submittal (EDSS) upload process prior to shipment.</p> <p><i>For Buyer Part Numbers, Vendor Item Control, or Source Control Drawings, C of C shall identify at a minimum:</i></p> <ol style="list-style-type: none"> 1. Manufacturer's name 2. Manufacturer's Address, Cage Code, or DUNS 3. Buyer Purchase Order (PO) and Line Item number 4. Material quantity 5. Buyer drawing number and Revision 6. Buyer parts list revision when parts list is specified on Buyer drawings or defined in the PO. 7. Seller part number and revision when specified as part of the Buyer drawing requirements 8. Traceability Data (if applicable) (i.e. serial number, date code, production lot number) 9. Other C of C Requirements identified on the PO <p><i>For Seller Part Numbers, C of C shall identify at a minimum:</i></p> <ol style="list-style-type: none"> 1. Seller's name 2. Manufacturer's Address, Cage Code, or DUNS 3. Buyer PO and Line Item number 4. Material quantity 5. Seller part number 6. Traceability Data (if applicable) (i.e. serial number, date code, production lot number) <p><i>For Special Processes Used to Produce Purchased Part by Buyer, C of C shall identify at a minimum:</i></p> <ol style="list-style-type: none"> 1. Special processor's name 2. Special processor's Address, Cage Code, or DUNS 3. Date special process performed 4. Material number special process performed on 5. Material quantity special process performed on 6. Material process specification & revision number 7. Indication that special process was performed in accordance with stated specification 8. Traceability Data (if applicable) (i.e. serial number, date code, production lot number) <p>Note: AS9163 may 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.</p>
SPC-TR-302	Q	Certificate of Conformance - Hard Copy	<p>Seller shall submit a signed/stamped (physical) and dated Certificate of Conformance (C of C) with each shipment.</p>

			<p><i>For Buyer Part Numbers, Vendor Item Control, or Source Control Drawings, C of C shall identify at a minimum:</i></p> <ol style="list-style-type: none"> 1. Manufacturer's name 2. Manufacturer's Address, Cage Code, or DUNS 3. Buyer Purchase Order (PO) and Line Item number 4. Material quantity 5. Buyer drawing number and Revision 6. Buyer parts list revision when parts list is specified on Buyer drawings or defined in the PO. 7. Seller part number and revision when specified as part of the Buyer drawing requirements 8. Traceability Data (if applicable) (i.e. serial number, date code, production lot number) 9. Other C of C Requirements identified on the PO <p><i>For Seller Part Numbers, C of C shall identify at a minimum:</i></p> <ol style="list-style-type: none"> 1. Seller's name 2. Manufacturer's Address, Cage Code, or DUNS 3. Buyer PO and Line Item number 4. Material quantity 5. Seller part number 6. Traceability Data (if applicable) (i.e. serial number, date code, production lot number) <p><i>For Special Processes Used to Produce Purchased Part by Buyer, C of C shall identify at a minimum:</i></p> <ol style="list-style-type: none"> 1. Special processor's name 2. Special processor's Address, Cage Code, or DUNS 3. Date special process performed 4. Material number special process performed on 5. Material quantity special process performed on 6. Material process specification & revision number 7. Indication that special process was performed in accordance with stated specification 8. Traceability Data (if applicable) (i.e. serial number, date code, production lot number) <p>Note: AS9163 may 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.</p>
SPC-TR-310	Q	Certificate of Calibration Data Submittal Requirement	<p>The Seller is required to submit a Certificate of Calibration electronically on the recalibrated items being returned; which is to be reviewed prior to shipment of the item back to Buyer. The Certificate of Calibration shall be submitted through the Electronic Data Supplier Submittal (EDSS) system. Additionally, a hard copy of the Certificate of Calibration shall accompany the part(s) with the return shipment.</p> <p>The Certificate of Calibration shall include, but is not limited to, the following:</p>

			<ol style="list-style-type: none"> 1. Title "Certificate of Calibration" 2. Unique identification number for the Certificate of Calibration 3. Page count with total number of pages 4. Lockheed Martin Part Number 5. Description of part being calibrated 6. OEM Part or Model Number 7. Serial Number 8. Revision Level 9. Quantity 10. Calibration Technician name and ID (if applicable) 11. Date, signature and title of the supplier's representative(s) approving the Certificate of Calibration 12. Date calibrated 13. Date next due calibration 14. Calibration Interval 15. Calibration Procedure Number / Revision / Description 16. "As Received" condition and "As shipped" condition 17. Name and address of the laboratory where the tests / calibrations were carried out 18. Name and address of the customer 19. Conditions (environment) under which the calibrations were made <p>A calibration label shall be affixed to each unit in shipment or labeled as specified by the controlling documentation for each unit in the shipment. The calibration label, at a minimum, shall contain the following information:</p> <ol style="list-style-type: none"> 1. Calibration company name and ID 2. Calibrated item part number 3. Calibrated item serial number 4. Date calibrated 5. Calibration next due
Product Origin			
SPC-TR-401	Q	Identification of Manufacturer on Packaging	<p>The cage code of the manufacturer of the product supplied shall be recorded on the packing list and/or on the smallest unit container and/or the outer shipping container; the cage code of the headquarters or main plant for the original equipment manufacturer/original component manufacturer is acceptable for commercial product. If the cage code is not available then the name and address of the manufacturer shall be provided. The Seller is responsible for meeting this requirement and shall flow this requirement to its sources of supply.</p> <p>This requirement is in addition to other packaging requirements identified on the face of the purchase order.</p> <p>The commercial and government entity (cage) code of manufacturers are assigned and maintained by the defense logistics agency and can be found at: https://cage.dla.mil</p>

SPC-TR-411	Q	Government Qualified Products Lists	Item(s) must be supplied from an approved source listed on the Government Qualified Products List (QPL). Qualification must be in accordance with the cited specifications/standards. The source or this item must be certified and QPL approved at time of contract award.
SPC-TR-412	Q	Program Approved Parts List (PAPL) database	Parts/Materials are in the Parts, Materials and Processes (PMP) and/or the Program Approved Parts List (PAPL) database.
SPC-TR-413	Q	GPSIII Parts, Materials and Processes Selection List (PMPSL)	Vendors limited to those listed in the GPSIII Parts, Materials and Processes Selection List (PMPSL).
SPC-TR-414	Q	Defense Supply Center Philadelphia QSLM/QSLD	Item(s) shall be traceable to the Defense Supply Center Philadelphia (DSCP) Qualified Suppliers List for Manufactures/ Qualified Suppliers list for Distributors (QSLM/QSLD). QSLM/QSLD may be accessed at: https://www.troopssupport.dla.mil/hardware/technical/qs.asp
PG – End Item Requirements (Program)			
End Item Requirements			
SPC-PG-001	Q	Data AMMO Cards - MIL-STD-1168	REF: MIL-STD-1168, Seller is to utilize the default Ammo Data Card (ADC) electronic database, a Worldwide Ammunition-Data Repository Program (WARP), currently located in the Munitions History Program (MHP) at (https://mhpwarp.redstone.army.mil). If authorized by each Program through the Buyer, the following can be utilized instead of the WARP Database. Ammo Data Cards (DD Form 1650) shall accompany each ordnance article and comply with MIL-STD-1168. DI-MISC-80043 may be used to assist in filling out the form. Current Revisions of DD Form 1650 can be found at: https://www.esd.whs.mil/Portals/54/Documents/DD/forms/dd/dd1650.pdf If no Government Source is called out on the Purchase Order, the Seller's Quality Representative, or the Buyer's Source Inspector shall complete blocks 20 through 22 and sign block 23 of the Ammunition Data Card. Ordnance articles shall be packaged and identified in accordance with applicable specification and safety requirements.
SPC-PG-002	Q	Additive Manufacturing Notification	The Seller shall notify the Lockheed Martin Buyer when additive manufacturing as defined in ISO/ASTM 52900 will be used to manufacture the product or any part of the product being supplied to this purchase order. Notification is not required when the Lockheed Martin design drawing specifies additive manufacturing as the production method. This requirement does not apply to COTS material (COTS - as defined in FAR 2.101).
SPC-PG-003	Q	MANNED SPACE FLIGHT - HIGHEST QUALITY PRODUCTS	The articles ordered in this Purchase Order are for use in Manned Space Flight, where the highest quality standards in materials manufacturing and workmanship are crucial for astronaut safety. If the Seller is able to supply the specified items with a quality that exceeds the required standards, the Seller shall notify the Buyer promptly through the LM Space Vendor Request for Information or Change (VRIC) or sellers' contract letter notification. Each notification must be followed by a documented response from the Buyer before the material is shipped. The Seller is responsible for including this requirement in all subcontracts and purchase orders at all tiers.
Hazardous and Restricted Materials			
SPC-PG-101	Q	Lockheed Banned or Restricted Materials	The Seller shall ensure that no Priority Chemicals are contained in the material being delivered against this Purchase Order.

			<p>The current list of Lockheed Martin Priority Chemicals can be found at:</p> <p>https://www.lockheedmartin.com/content/dam/lockheed-martin/aero/documents/scm/tandc/ES-H/Lockheed_Martin_Priority_Chemicals_List.pdf</p> <p>If any hazardous materials will be contained in the product, the Buyer must be notified when the Seller becomes aware of the presence of Priority Chemicals. Lockheed Martin reserves approval authority for use of restricted materials.</p>
SPC-PG-102	Q	RoHS Compliance	<p>Seller shall ensure that all materials and products provided under this purchase order comply with the Restriction of Hazardous Substances (RoHS) directive 2011/65/EU and its amendments. Seller shall provide a RoHS compliance certificate with each delivery, indicating that the materials and products meet the maximum concentration values for the restricted substances. Seller is responsible for verifying that all components and materials used in the production of the products comply with the RoHS directive.</p>
SPC-PG-103	Q	CE Compliance	<p>Seller shall ensure that material delivered on this Purchase Order are CE (Conformité Européenne) Compliant. The seller shall ensure that the product is CE marked and certified to the applicable CE directives.</p>
SPC-PG-104	Q	Standard Mercury Exclusion	<p>Material supplied shall contain no functional mercury and shall not be contaminated by mercury or mercury compounds. Seller shall obtain approval from the Buyer before shipment if: (a) functional mercury is present; (b) mercury contamination is suspected, or (c) mercury is knowingly introduced in the manufacturing process. RoHS compliant parts are considered compliant to this requirement.</p>
SPC-PG-105	Q	Mercury Exclusion Certification	<p>1) The material supplied under this purchase order shall contain no metallic mercury and shall be free from mercury contamination. Mercury contamination of the material will be cause for rejection.</p> <p>2) If the inclusion of metallic mercury is required as a functional part of the material furnished under this purchase order, the Seller shall obtain written approval from the Buyer before proceeding with manufacture or delivery of the parts. The Seller's request shall explain in detail the requirements for mercury, identify specifically the parts to contain mercury, and explain the method of protection or containment against mercury escape.</p> <p>3) If external contamination during manufacture, storage, or transport of the material is suspected, then the following test may be utilized to determine whether contamination exists:</p> <ol style="list-style-type: none"> 1. Enclose the part or equipment in a polyethylene bag or close fitting air tight container for eight hours at room temperature (70 deg minimum). 2. Sample trapped air and if mercury vapor concentration is .01mg/cu meter or more, the material is considered contaminated insofar as to requirements to this purchase order are concerned. <p>4) These requirements shall be included in any sub-tier purchase order or contract hereunder and the Seller shall ensure compliance by sub-tier suppliers.</p> <p>5) Technical questions pertaining to these requirements shall be referred to the Buyer shown on the Purchase Order who will coordinate responses to any questions.</p>

			<p>6) The Seller shall provide written confirmation that includes the following information on company letterhead signed by an appropriate authorized agent.</p> <ul style="list-style-type: none"> - PO Number and Line item number - Part number - Qty - Serial number, Date code, and/or Lot number (if applicable) <p>At a minimum the written confirmation will state that:</p> <p>OR:</p> <ul style="list-style-type: none"> a) The delivered material does not contain metallic mercury or mercury contamination b) The material contains functional mercury, the specific parts affected, and that written approval from Lockheed authorizing shipment of the affected parts is attached.
SPC-PG-106	Q	REACH Compliance	Seller shall ensure that material delivered on this Purchase Order are REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) Compliant.
SPC-PG-110	Q	Hazardous Material Labels	<p>Seller shall ensure that each container of toxic substances or hazardous chemicals shall bear a label with the chemical name and hazard warning as defined by O.S.H.A. Hazard Communication Standard 29 CFR 1910.1200 and state employee Right-to-Know laws.</p> <p>In addition, Seller shall provide material safety data sheets (MSDS) for these substances with each shipment.</p>
SPC-PG-111	Q	Ship with MSDS/SDS	Seller shall electronically deliver the material's MSDS/SDS at the time of shipment via the Electronic Data Supplier Submittal (EDSS) system. If the Material Safety Data Sheet does not have a number then document the Hazard Code.
TS - Testing			
Test Procedures and Reports			
SPC-TS-001	Q	Acceptance Test Procedure - Buyer Approval	<p>Seller shall obtain Buyer's review and approval of its acceptance test procedures (ATP), (i.e. test program, electrical, and screening), prior to conducting tests on items to be delivered under this order.</p> <p>a. If, due to type of software or test routines involved, it is necessary for Buyer to perform this review at Seller's facility, Seller shall so notify Buyer of this requirement and of test program availability thirty (30) days prior to start of testing.</p> <p>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. Seller 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.</p>
SPC-TS-003	Q	Printed Wire Board (PWB) Deliver	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 Lockheed Martin (LM). Mounts/coupons must

		Microsections and Test Coupons	be bagged separately from the PWB, but may be attached to the PWB bag. Mounts/coupons are subject to verification by LM prior to final hardware acceptance.
SPC-TS-004	Q	Raw Material Test Reports	<p>Seller shall 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.</p> <p>The Manufacturer's test report shall include the following information (as applicable) based on the product being shipped:</p> <ul style="list-style-type: none"> A. Raw material manufacturer's name and/or cage code B. Specifications with revision or letters C. Traceability such as Batch, Heat or Lot number D. Date of manufacture E. Chemical analysis with actual test values F. Physical analysis (Tensile, shear, hardness, etc.) with actual test values G. Verification of special processes per the drawing requirements. (i.e. heat treat, NDI, passivation, coatings, finishes, etc.) H. Temper or grade I. Dimensional measurements <p>For aluminum mill products (except castings), certifications for chemistry may indicate compliance within the allowed range. When organization supplies converted material produced by a raw material manufacturer, the organization shall submit all pre and post conversion chemical / physical tests reports. 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). 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.</p> <p>For Plastics and other non-metallic materials, the raw material manufacturer's C of C would include the Raw material manufacturer's name and/or cage code, Specifications with revision or letters, Traceability such as Batch or Lot number, Date of manufacture, and Dimensional measurements.</p>

SPC-TS-005		Acceptance Test Report	<p>The Seller shall electronically deliver a test report to the agreed upon Acceptance Test Procedure (ATP). If there is not an agreed upon ATP, the seller shall use their standard ATP for this part. The report shall include actual test and/or inspection values obtained when the ATP specifies limits for chemical, mechanical, electrical, physical, or other properties. This report shall be validated by an authorized Seller Quality Representative through the application of an inspection stamp, a signature and title, or electronic approval method.</p> <p>The report shall include the following data elements at a minimum:</p> <ul style="list-style-type: none"> • Seller/Manufacturer Name • Seller/Manufacturer Address • Part Number • Serial Number(s)/Lot Number(s) (as applicable) • Run Time (as applicable) • Test Procedure Rev (as applicable) • Test(s) Conducted • Actual Results of Test(s) • Electronic Signature, Inspection Stamp, or Physical Signature • Date(s) of Test(s) <p>The Seller shall submit all data and documentation electronically using the Electronic Data Supplier Submittal (EDSS) system.</p>
SPC-TS-006	Q	Electrical Testing of Printed Wiring Boards (PWB)	<p>Electrical Testing shall be performed in accordance with the Purchase Order and the Master Printed Wiring Board Drawing. A copy of the electrical test report shall be included in the build documentation establishing test parameters and results. The report shall ensure traceability to the lot under test.</p> <p>The following methods in accordance with IPC-9252 may be utilized on Class 3 boards: Indirect isolation testing by signature comparison may be utilized provided the boards are rigid only in type and contain solid ground planes (split planes are not acceptable).</p> <p>Adjacency may be utilized for isolation testing under the following conditions:</p> <ol style="list-style-type: none"> 1) The distance shall be set at a minimum of 7.62 millimeters (0.300 inch) unless the design minimum conductor spacing is greater than 1.524 millimeters (0.060 inch) then it shall be set at a minimum of 5 times the minimum conductor spacing. 2) PWBs shall be tested to an electrical test programmed from the furnished IPC-D-356 netlist. When the Buyer furnishes gerber data without furnishing a netlist test file; the Seller shall extract a test file from the original gerber data. <p>The Seller shall submit all data and documentation electronically using the Electronic Data Supplier Submittal (EDSS) system prior to shipment.</p>

SPC-TS-007	Q	Printed Wire Board (PWB) Retain Microsections and Test Coupons	Printed Wiring Board (PWB) coupons, including any board samples utilized in test or referee, shall be maintained by the Seller as objective evidence as to the acceptability of the contracted article(s) through procurement, fabrication, assembly and/or test. Coupons must be maintained for a minimum period of seven (7) years, or as otherwise stated elsewhere in this Purchase Order.
SPC-TS-008	Q	Ultrasonic Inspection Procedure Approval	<p>Seller shall submit ultrasonic inspection procedures and/or technique data sheets to the Buyer's Procurement Representative for approval prior to shipping the first article. The Buyer shall obtain approval from the Lockheed Martin Nondestructive Testing (NDT) Level III. The technique sheet shall identify method of technique (conventional / digital).</p> <p>Seller shall notify the Buyer's Procurement Representative in writing and obtain approval when changes are made to the ultrasonic inspection procedure and/or technique data sheet.</p> <p>The Seller shall submit all data and documentation electronically using the Electronic Data Supplier Submittal (EDSS) system prior to shipment</p>
SPC-TS-010	Q	Failure Analysis Report / Cannot Verify Failure Report	<p>The Seller shall electronically submit a Failure Analysis Report on the items being returned for repair/rework. The Failure Analysis Report shall be submitted through Electronic Data Supplier Submittal (EDSS) system as a lot attachment.</p> <p>At a minimum, the subject line of this submittal shall include the associated PO Number & Line Item Number.</p> <p>The Failure Analysis Report shall include the following:</p> <ol style="list-style-type: none"> 1. Lockheed Martin return Purchase Order Number(s) & Line Item Number(s) 2. Lockheed Martin Part Number(s) and Serial Number(s) 3. If no fault is found, provide evaluation steps that were performed to reach this conclusion 4. Describe the applicable repair activity and any applicable test actions performed 5. Provide a list of the failed and/or significant parts replaced, including the part number(s) and description(s) 6. As applicable, identify all software/firmware revisions configured on the unit 7. As applicable, if during the repair activity you identify the cause of the failure, provide your summary of the cause of failure 8. As applicable, any Lockheed Supplier Corrective Action Request numbers 9. Date, signature/e-signature, address where work was performed, and title of the supplier's representative(s) approving the Failure Analysis Report <p>In the event that a repair cannot be performed without deviation from the established design, i.e. Part-substitution, standard repair methods, the use of refurbished/remanufactured parts, etc. the Lockheed Martin buyer shall be notified prior the initiation of the repair.</p>

			<p>In the event that the failure cannot be verified, the supplier shall contact the Lockheed Martin buyer listed on this return Purchase Order.</p> <p>The supplier shall not return the item until authorized by the Lockheed Martin buyer. When the item is returned to Lockheed Martin, the accompanying documentation shall indicate that the described failure could not be verified (CNV) and the test steps taken to reach that conclusion.</p>
SPC-TS-011	Q	Cable and Wire Spark Test Report	<p>SHIELDED AND JACKETED CABLES: All shielded and jacketed cables procured on this Purchase Order (PO) require spark test testing or equivalent test in accordance with ANSI/NEMA WC 27500 or the applicable specification as specified on the engineering drawing. Seller shall provide a copy of the manufacturer's spark test or equivalent test certification with each delivery. When product is removed from the manufacturer's original spool and re-spoiled, the original spark test or equivalent test for the material removed shall be considered void and the material shall be re-tested. Care shall be taken to insure insulation integrity, make certain no sharp edges or other abrasive/cutting characteristics are present on the final spool or equipment used to process re-spoiled cables prior to testing. In addition, Seller shall provide, upon request, detailed work instructions to ensure re-spoiled cable is free from nicks, cuts, pinholes, twists and abrasions.</p> <p>JACKETED WIRES: Jacketed wire procured on this Purchase Order (PO) require spark test testing or equivalent test in accordance with SAE AS 22759 or the applicable specification as specified on the engineering drawing requirement. Seller shall provide a copy of the manufacturer's spark test or equivalent test certification with each delivery. When product is removed from the manufacturer's original spool and re-spoiled, the original spark test or equivalent test for the material removed shall be considered void and the material shall be re-tested. Care shall be taken to insure insulation integrity, make certain no sharp edges or other abrasive/cutting characteristics are present on the final spool or equipment used to process re-spoiled wire prior to testing. In addition, Seller shall provide upon request detailed work instructions to ensure re-spoiled wire is free from nicks, cuts, pinholes, twists and abrasions.</p> <p>A copy of the spark test re-test certification containing the following shall be included with each shipment and retained on file with the Seller:</p> <ol style="list-style-type: none"> 1. Testing Facility Name 2. PO/Line Item Number 3. Customer Part Number 4. Lot Number 5. Quantity Re-tested 6. Date Rested 7. Testing Agent Signature / eSignature 8. Testing Specification <p>The Seller shall submit all data and documentation electronically using the Electronic Data Supplier Submittal (EDSS) system prior to shipment</p>

SPC-TS-012	Q	Pressure Vessels Documentation	With each shipment of a pressure vessel, the Seller shall provide two copies of American Society of Mechanical Engineering (ASME) code reports showing conformance of the units to the requirements of the pressure vessel code. The hardware markings must be in accordance with the applicable drawing/specification. The report shall indicate the methods used and the pressures used to test and certify the vessel.
SPC-TS-013	Q	Non-Standard Electronic Piece Parts - Specification Variation	<p>Parts delivered to this purchase order shall comply with all part performance quality and reliability requirements in accordance with the device specification.</p> <p>Upon first shipment, a break in production greater than one year, or a shipment following a qualifying event (change to the design, manufacture, methods, tooling, facility location) the seller shall provide one or a combination of the following test reports:</p> <p>A) For parts where no data exists and testing is the only alternative, lot-specific test data per the device specification</p> <p>B) Actual test data from similar products by the same manufacturer using similar parts, materials, and processes with requirements equivalent to or better than the device specification</p> <p>C) Engineering analysis of historical data from similar (or more stringent) product applications</p> <p>D) Data supporting a documented failure-mechanism-driven reliability qualification program using JEDEC STD JESD34 (failure-mechanism-driven reliability qualification of silicon devices) guidelines.</p> <p>This data shall be submitted with parts and shall not be considered proprietary to the Seller.</p>
SPC-TS-014	Q	Qualification Test	The Seller shall prepare and document a detailed qualification test procedure to assure conformance with qualification requirements. The procedure shall be sent to the Buyer Procurement Representative for the Buyer Quality Engineering review and approval prior to any qualification activities. Actual qualification test results shall be sent to the Buyer Procurement Representative for Buyer Quality Engineering review and approval prior to the delivery of the first unit of hardware.
SPC-TS-015	Q	Screening / Lot Acceptance Test Summary Sheet	<p>The seller shall submit a screening/lot acceptance test summary sheet with each lot of components as defined by the applicable specification.</p> <p>The Seller shall submit all data and documentation electronically using the Electronic Data Supplier Submittal (EDSS) system prior to shipment</p>
SPC-TS-016	Q	100% PIND Screening	Particle Impact Noise Detection (PIND) screening is required on 100% of parts. PIND screening shall be performed in accordance with MIL-STD-883 (method 2020 condition A), or MIL-STD-750 (method 2052 condition A), unless otherwise specified by the drawing.
SPC-TS-017	Q	Particle Impact Noise Detection (PIND)	<p>PARTICLE IMPACT NOISE DETECTION (PIND)</p> <p>OR</p> <p>X-RAY MSRI INSPECTION (SEE NOTE 1)</p> <p>-----</p>

			<p>PIND testing is required for metal can and ceramic packaged devices with metal lids without getter material.</p> <p>-----</p> <p>PIND testing is not required for devices when the manufacturers have an "in-line PIND process monitor" which has been reviewed and approved by Buyer's Quality Component Assessment Group (CAG) or the device has getter material inside of the package cavity.</p> <p>-----</p> <p style="text-align: center;">TYPICAL TEST METHODS</p> <p>-----</p> <table border="1"> <thead> <tr> <th>DEVICE TYPE</th> <th>PIND</th> <th>X-RAY</th> </tr> </thead> <tbody> <tr> <td>I.C. (MIL-PRF-38535)</td> <td>MIL-STD-883 METHOD 2020, TEST COND A 1 TEST CYCLE OR RUN</td> <td>MIL-STD-883 METHOD 2012</td> </tr> <tr> <td>HYBRID (MIL-PRF-38534)</td> <td>MIL-STD-883 METHOD 2020, TEST COND A 1 TEST CYCLE OR RUN</td> <td>MIL-STD-883 METHOD 2012</td> </tr> <tr> <td>OSCILLATORS & CRYSTAL (MIL-PRF-55310)</td> <td>MIL-STD-883 METHOD 2020, TEST COND B 1 TEST CYCLE OR RUN</td> <td>MIL-STD-883 METHOD 2012</td> </tr> <tr> <td>SOLID STATE RELAYS</td> <td>PER DEVICE SPECIFICATION 1 TEST CYCLE OR RUN</td> <td>MIL-STD-750 METHOD 2076</td> </tr> <tr> <td>DIODES (MIL-PRF-19500)</td> <td>MIL-STD-750 METHOD 2052, TEST COND A 1 TEST CYCLE OR RUN</td> <td>MIL-STD-750 METHOD 2076</td> </tr> <tr> <td>TRANSISTORS (MIL-PRF-19500)</td> <td>MIL-STD-750 METHOD 2052, TEST COND A 1 TEST CYCLE OR RUN</td> <td>MIL-STD-750 METHOD 2076</td> </tr> <tr> <td>THYRISTORS (MIL-PRF-19500)</td> <td>MIL-STD-750 METHOD 2052, TEST COND A 1 TEST CYCLE OR RUN</td> <td>MIL-STD-750 METHOD 2076</td> </tr> </tbody> </table> <p>-----</p> <p>Notes:</p> <p>1. X-ray in lieu of PIND testing can be performed for special types of cavity devices that are not recommended for PIND due to noise sensitivity and/or construction concerns (i.e. crystal oscillator) where approved by the Buyer's Quality Component Assessment Group (CAG).</p>	DEVICE TYPE	PIND	X-RAY	I.C. (MIL-PRF-38535)	MIL-STD-883 METHOD 2020, TEST COND A 1 TEST CYCLE OR RUN	MIL-STD-883 METHOD 2012	HYBRID (MIL-PRF-38534)	MIL-STD-883 METHOD 2020, TEST COND A 1 TEST CYCLE OR RUN	MIL-STD-883 METHOD 2012	OSCILLATORS & CRYSTAL (MIL-PRF-55310)	MIL-STD-883 METHOD 2020, TEST COND B 1 TEST CYCLE OR RUN	MIL-STD-883 METHOD 2012	SOLID STATE RELAYS	PER DEVICE SPECIFICATION 1 TEST CYCLE OR RUN	MIL-STD-750 METHOD 2076	DIODES (MIL-PRF-19500)	MIL-STD-750 METHOD 2052, TEST COND A 1 TEST CYCLE OR RUN	MIL-STD-750 METHOD 2076	TRANSISTORS (MIL-PRF-19500)	MIL-STD-750 METHOD 2052, TEST COND A 1 TEST CYCLE OR RUN	MIL-STD-750 METHOD 2076	THYRISTORS (MIL-PRF-19500)	MIL-STD-750 METHOD 2052, TEST COND A 1 TEST CYCLE OR RUN	MIL-STD-750 METHOD 2076
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OSCILLATORS & CRYSTAL (MIL-PRF-55310)	MIL-STD-883 METHOD 2020, TEST COND B 1 TEST CYCLE OR RUN	MIL-STD-883 METHOD 2012																									
SOLID STATE RELAYS	PER DEVICE SPECIFICATION 1 TEST CYCLE OR RUN	MIL-STD-750 METHOD 2076																									
DIODES (MIL-PRF-19500)	MIL-STD-750 METHOD 2052, TEST COND A 1 TEST CYCLE OR RUN	MIL-STD-750 METHOD 2076																									
TRANSISTORS (MIL-PRF-19500)	MIL-STD-750 METHOD 2052, TEST COND A 1 TEST CYCLE OR RUN	MIL-STD-750 METHOD 2076																									
THYRISTORS (MIL-PRF-19500)	MIL-STD-750 METHOD 2052, TEST COND A 1 TEST CYCLE OR RUN	MIL-STD-750 METHOD 2076																									

			<p>2. A copy of the test results shall accompany each shipment of devices requiring PIND or x-ray testing.</p> <p>3. Sample size testing requires that a sample group size of 45 devices shall be tested. It should be noted that sample testing requires that all of the devices shall have same part number, same date code and from the same manufacturer. If the number of devices is less than 45, then the sample size shall be 100% of the devices.</p> <p>4. If a sample tested inspection lot fails the PIND or x-ray testing, the entire lot is to be 100 percent tested. The Buyer's Quality Component Assessment Group (CAG) shall be notified (submit the noncompliance to the Buyer) if the failure rate exceeds 20%. All devices failing PIND testing at an independent test lab shall be purged from the lot and packaged in a separate container and returned to the Buyer's Receiving Inspection.</p> <p>5. All technical questions related to the generation and/or submittal of the above described testing shall be directed to the Buyer.</p> <p>6. All contractual direction including approval/disapproval of test plans and/or reports submitted in support of this Purchase Order will be provided by the Buyer.</p> <p>The Seller shall submit all data and documentation electronically using the Electronic Data Supplier Submittal (EDSS) system prior to shipment.</p>
SPC-TS-018	Q	Electrical Test Data	<p>Electrical test data shall consist of providing a copy of the manufacturer's "final electrical test data" or "Military Group A test data" in accordance with the data requirement indicated below:</p> <p>1. The Seller shall submit all data and documentation electronically using the Electronic Data Supplier Submittal (EDSS) system prior to shipment.</p> <p>2. The test data shall record the information noted below as a minimum for each receiving lot:</p> <ul style="list-style-type: none"> a. Quantity received from manufacturer. b. Part type (description). c. Manufacturer's part number. d. Lot date code. e. Serial numbers (if applicable) f. Number of devices subjected to each test. g. Actual results of the tests. h. Number of devices passing each test. i. Number of compliant and non-compliant devices in the lot. j. Approval stamp or signature of the manufacturer's representative. <p>3. All tests shall be performed in accordance with the latest revision of the applicable component specification or military specification.</p>

			<p>4. 10 percent defective allowed (PDA). No more than 10 percent of parts can fail testing. For inspection lots containing more than one date code, the PDA shall be against each inspection lot date code.</p>
<p>SPC-TS-019</p>	<p>Q</p>	<p>Group A Electrical Testing</p>	<p>Electrical test requirements: Electrical tests shall consist of performing "final electrical testing" in accordance with the requirements indicated below:</p> <ol style="list-style-type: none"> 1. Unless otherwise specified on the Purchase Order (PO), all tests shall be performed in accordance with the latest revision of the applicable component specification or military specification. 2. Prior to the start of any electrical testing, an incoming external visual shall be performed to verify that the devices sustained no shipping damage. 3. 100% of the devices will be subjected to final electrical testing or military group A testing at an independent test facility. If electrical testing cannot be performed by a buyer approved independent test lab and can only be performed at the manufacturer, justification for the exception shall be submitted to and approved by the Buyer. Test and process data must be representative of part number, specific lot date code, and the device test plan. 4. Test sequence, test parameters, and test program shall be approved by the Buyer prior to initiation of device electrical testing. The receiving lot shall be subjected to 100% electrical testing. The test data shall record the lot and test data information noted below as a minimum for each receiving lot. <ol style="list-style-type: none"> A. Lot information <ol style="list-style-type: none"> a. Customer name & Purchase Order number. b. Quantity received from Seller. c. Part type (description). d. Customer & Manufacturers part number. e. Lot date codes. B. Test data <ol style="list-style-type: none"> a. Date of testing. b. Electrical tests, limits and conditions (reference test software & equipment). c. Number of devices subjected to each test. d. Number of devices passing each test. e. Number of compliant and non-compliant devices in the lot. f. Disposition of all failed devices. g. Independent QA verification of test results. 5. Five percent (5%) defective PDA (Percent Defectives Allowable) calculation: Any inspection lots with more than 5% of the devices failing electrical parameter testing shall be considered to be a failed lot and the Buyer shall be notified within 48 hours. The PDA shall be calculated across all electrical tests performed for each inspection lot.

			<p>A. For inspection lots containing more than one date code, the PDA shall be calculated against each date code.</p> <p>B. The test records shall include an entry for the calculated PDA.</p>
SPC-TS-020	Q	Group B Acceptance Testing	<p>Environmental test or qualification test results shall list all parameters tested and actual readings taken during these tests. The Group B test requirement may be satisfied with test data which is an established part of the contractor's system so long as the data demonstrates satisfactory performance of the inspection lot from which all parts are shipped. This data shall accompany each shipment.</p> <p>Seller's quality representative shall validate the test report and sign with either an electronic signature, physical signature, or stamp.</p>
Testing – Non Destructive Testing			
SPC-TS-101	Q	Solderability Testing - Seller	<p>Solderability testing shall be performed by the Seller (or by a capable test facility of the Seller's choice). Testing shall be performed using the latest revision of J standards available at the execution of this Purchase Order.</p> <p>Devices utilized for Solderability testing shall be segregated from the lot and not be delivered to the Buyer.</p> <p>Seller shall include test report for solderability testing with each shipment which states that testing has been performed and result is acceptable. This test report shall include:</p> <ol style="list-style-type: none"> 1. Buyer Purchase Order and Line Item Number 2. Part Number(s) 3. Date Code(s) and/or Lot Number(s) 4. Quantity Tested 5. Specify Pre-condition Type and Exposure Parameter 6. Name of the Testing Facility if different from the Manufacturer 7. Testing Date 8. Signature and Title of an Authorized Seller's Representative <p>If solderability test report is in the form of electronic certifications, then signature is not required.</p> <p>Seller shall submit all data and documentation electronically using the 1LM Inspection System prior to shipment.</p> <p>NOTE: Seller shall contact the Buyer should the material fail solderability testing.</p> <p><u>For Printed Wiring Boards (PWBs):</u> Testing shall be performed using the latest revision of J standards available at the execution of this Purchase Order.</p> <p>Solderability test shall comply with J-STD-003, Class 3, Category 3, unless otherwise specified in the governing purchasing document/drawing. Solder float test is the preferred method. Test samples shall comply with the fabrication specification of Printed Wiring Boards.</p>

			<p>An acceptable solderability test result shall be within six (6) months of the date of delivery to the Buyer from either the Original Component Manufacturer (OCM), the Seller, or by a capable test facility of the Seller's choice.</p> <p><u>For Components, Lugs, Terminals, Wires and Shields:</u> Testing shall be performed using the latest revision of J standards available at the execution of this Purchase Order.</p> <p>Test in accordance with J-STD-002 unless otherwise specified in governing purchasing document (i.e.: Source Control Drawing, Altered Item Drawing, Buyer's drawing, or Mil-Specification).</p> <p>An acceptable solderability test result shall be within two (2) years of the date of delivery to the Buyer from either the Original Component Manufacturer (OCM), the Seller, or by a capable test facility of the Seller's choice.</p> <p>Wires and Shields shall be tested per J-STD-002, preceded by one (1) hour of steam exposure. When testing shields, the component wires of the cable may be left in place.</p> <p>Components, Lugs, and Terminals shall be tested per J-STD-002, preceded by pre-conditioning Category C (after eight (8) hours of steam exposure for tin and tin alloy finishes) or pre-conditioning Category A (after one (1) hour for non-tin or non-tin alloy finishes). A minimum of two (2) pieces from each deliverable Lot or Date Code shall be tested. (ex. Electrical components with date code 2201A, 2201B, 2201-CB are still considered D/C 2201).</p>
SPC-TS-102	Q	Solderability Testing - Buyer	<p>Articles to be delivered under this Purchase Order are subject to a solderability test upon receipt in accordance with (IAW) the applicable industry standards/specifications. Failure of the parts/components to meet the acceptance criteria of the applicable specification will be cause for rejection.</p> <p>A minimum of two pieces will be tested.</p> <p>Components, Lugs, Terminals and Wires will be tested in accordance with J-STD-002, unless otherwise specified in governing purchasing document (i.e. Source Control Drawing, Altered Item Drawing, or Mil-Specification).</p> <p>Conditioning for Conductors (wires) and shields will be tested IAW the Buyer's cross-functional procedure. When testing shields, the component wires of the cable may be left in place.</p> <p>Conditioning of Components, Lugs and Terminals will be tested IAW Buyer's cross-functional procedure.</p> <p>Printed Wiring Boards (PWBs): Solderability test shall comply with J-STD-003 class 3 category 3. Solder float test is the preferred method. Test samples shall comply with the fabrication specification of Printed Wiring Boards.</p>

SPC-TS-103		X-Ray Fluorescence (XRF) - Seller Performed	<p>Seller shall submit x-ray technique sheets, x-ray film (or digital copy), and x-ray lab report for Buyer approval prior to shipping the first article. The technique sheet shall identify the method of technique (conventional / digital). The Buyer shall obtain approval from the Lockheed Martin Nondestructive Testing (NDT) Level III. All items shall be permanently marked with the applicable x-ray control number, in accordance with ASTM E 1742 paragraph 6.4. X-rays shall be retained on file by the seller and made available for Buyer's review upon request.</p> <p>Seller shall notify the Buyer in writing and obtain approval when the specific type of Radiographic/Radioscopic Non Destructive Testing technique/method (wet, DR, CR, DDA, etc.) will need to change from the previously Buyer approved method.</p> <p>If multiple lot date codes are present, the seller shall perform XRF testing for each lot.</p> <p>The Seller shall submit all data and documentation electronically using the Electronic Data Supplier Submittal (EDSS) system prior to shipment.</p>
SPC-TS-104	Q	X-Ray Fluorescence (XRF) - Buyer Performed	<p>Articles to be delivered under this Purchase Order are subject to an X-Ray Fluorescence inspection upon receipt in accordance with the applicable industry standards/specifications. Failure of the parts/components to meet the acceptance criteria of the applicable specification will be cause for rejection.</p> <p>If multiple lot date codes are present, the Buyer will perform XRF testing for each lot.</p>
SPC-TS-108	Q	Ultrasonic Inspection Procedure Approval	<p>Seller shall submit ultrasonic inspection procedures and/or technique data sheets to the Buyer's Procurement Representative for approval prior to shipping the first article. The Buyer shall obtain approval from the Lockheed Martin Nondestructive Testing (NDT) Level III. The technique sheet shall identify method of technique (conventional / digital).</p> <p>Seller shall notify the Buyer's Procurement Representative in writing and obtain approval when changes are made to the ultrasonic inspection procedure and/or technique data sheet.</p> <p>The Seller shall submit all data and documentation electronically using the P2P ship to module via Exostar (https://portal.exostar.com) prior to shipment.</p>
SPC-TS-120	Q	X-Ray Fluorescence (XRF) on 5 pcs per lot - seller performed	<p>Seller shall perform x-ray inspection on a minimum of 5 pieces per lot of material delivered on this purchase order.</p> <p>Seller shall submit x-ray technique sheets, x-ray film (or digital copy), and x-ray lab report for Buyer approval prior to shipping the first article. The technique sheet shall identify the method of technique (conventional / digital). The Buyer shall obtain approval from the Lockheed Martin Nondestructive Testing (NDT) Level III. All items shall be permanently marked with the applicable x-ray control number, in accordance with ASTM E 1742 paragraph 6.4. X-rays shall be retained on file by the seller and made available for Buyer's review upon request.</p>

			<p>Seller shall notify the Buyer in writing and obtain approval when the specific type of Radiographic/Radioscopic Non Destructive Testing technique/method (wet, DR, CR, DDA, etc.) will need to change from the previously Buyer approved method.</p> <p>The Seller shall submit all data and documentation electronically using the Electronic Data Supplier Submittal (EDSS) system prior to shipment.</p>
SPC-TS-121	Q	X-Ray Fluorescence (XRF) on 5 pcs per lot - buyer performed	<p>Articles to be delivered under this Purchase Order are subject to an X-Ray Fluorescence (XRF) inspection upon receipt in accordance with the applicable industry standards/specifications. Failure of the parts/components to meet the acceptance criteria of the applicable specification will be cause for rejection.</p> <p>The buyer will perform XRF on 5 pieces per lot. If multiple lot date codes are present, the Buyer will perform XRF testing for each lot.</p>
Destructive Testing			
SPC-TS-201	Q	Destructive Physical Analysis (DPA) - Supplier Performed	<p>In addition to the normal construction integrity analysis, the Seller shall perform a destructive physical analysis (DPA) as part of the first article. Once accepted by LM, this DPA verification validates all future builds of that part number until any of the following occurs:</p> <ul style="list-style-type: none"> • A drawing/revision change affects design attributes • A Seller tooling/panelization change • A new first article as required by LM via PO note • A construction integrity failure noted at lot acceptance <p>A production PWB is to be used for the DPA sample. The DPA board chosen for testing shall be selected by the Seller from within the panelization to represent the potential worst case difference of product to panel coupon relationship. DPA sample location shall be selected by the Seller from a representative area of highest design complexity. The Seller shall provide a graphical representation of the panel layout, with the location of the chosen DPA test article noted. Testing shall include thermally stressed (vertical) cross sections of the PWB in the X and Y axis to analyze the construction integrity of representative plated through hole structures in accordance with the applicable performance specification, per the drawing. Multiple plated through hole structures captured in a single mount is acceptable. Results of the DPA cross section shall be documented on an applicable lot acceptance micro-section lab report with photos.</p> <p>The DPA report shall be submitted as a deliverable item with the associated first article. DPA micro-section coupons shall be retained by the Seller in accordance with purchase order record retention requirements. Remnants of the DPA part are not required to be retained.</p>
SPC-TS-202	Q	Destructive Physical Analysis (DPA) - Lockheed Performed	Destructive Physical Analysis (DPA) shall be performed on each Lot Date Code (LDC) of parts listed in this order.

Other			
CST-EN-000	Q	Preci-Dip Technical Source Restriction	PRECI-DIP M39029/56 CONTACTS ARE BANNED

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
	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
	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

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: QZ2	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

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

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, QD4K7, 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 *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	QBRCD updated to include link to step by step usage guide and a reference to Q4M.
	Updated: QSP	QSP updated to make reference for suppliers approved to Q4M.
	Updated: QAQC09	QAQC09 updated to replace a superseded calibration system reference.

	Updated: QZ320 Added: Q4M	QZ320 updated to replace SMP010762U08 with SMP10764U09 (per FBM request) 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. *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 Edited: QOPR	QZ299 updated to remove Rev reference. 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	QQB updated to include First Article Inspection, Form 3 information.
	Updated: QM17	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. 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	Added: QGPSGC	GPS Only: Group C Test Review
	*note-v2 is the same version and was only edited to correct document date in footer	
08/23/2023	Added Q29 Added QPSDPA	Q29: FBM Only Code: Destroyed/Consumed FBM CII Traceable hardware Report Submittal QPSDPA: added code to inform suppliers to pre-ship parts for DPA testing. This supports the process improvement for OET #2500

11/16/2023	<p>Updated: QSP, QSPS</p> <p>Updated: QSQAP</p> <p>Updated: QAQC14 and QAQC14A</p> <p>Updated: QPOR</p>	<p>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.</p> <p>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)</p> <p>QAQC14 and QAQC14A: Updated link in description to https://www.myexostar.com/?ht_kb=Imp2p-training-resources</p> <p>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.</p>
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.
05/16/2024	Updated QCOC	Deleted redundant sentences and added language for clarification. Removed section for Special Process CofC, since it is redundant with the requirements of QSP and is also missing other requirements in the QSP such as PO#.
09/03/2024	<p>Updated QA5</p> <p>Added QTPA</p> <p>Updated QEDSS</p> <p>Removed QQWGC</p>	<p>Added requirement for supplier to include revision information. Added to QA5 to ease the transition for replacing the CofC requirement with the QCOC code.</p> <p>Added new code similar to QTP but to flow out the OD68756 document number for support equipment.</p> <p>Updated verbiage in QEDSS to align with process changes which will further drive compliance with electronic documentation upload requirements. Requested by Receiving Inspection Management.</p> <p>Removed code to reinforce direction in the QEDSS code. Suppliers are now required to be trained to upload documents to EDSS. It not longer optional.</p>
10/23/2024	Updated QAQC26	Minor update to text to add clarification.

04/13/2025	Created 1LM-IN-204	Created 1LM-IN-204 – Inspection Data Deliverable. The QCode reflects the new 1LM naming convention. Currently, this code is specific to the THAAD program.
11/28/2025	Updated QD4B and QD4C	Updated language in QD4B and QD4C to align with the correct paragraph in AS9100 D. Replaced “Section 7” with “Section 8”.
03/12/2026	Added Table of Contents. Added 1LMX Text keys.	Added Space version of 1LM Text Keys (QCodes) to use as Space transitions to 1LMX Cross BA standardized text keys. QCodes are now separated into current text keys in Table 1 and 1LM text keys in Table 2.