

## **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.







QM8

Q PRINTED WIRING  
BOARD FABRICATION  
REQUIREMENTS











QLM

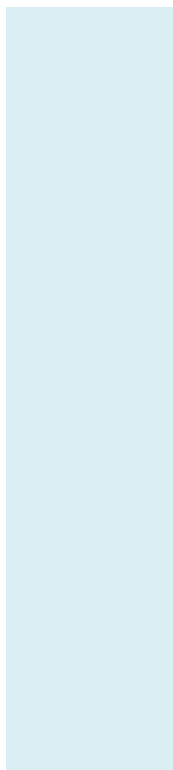
Q

ACCEPTANCE TEST  
PROCEDURE  
APPROVAL

			<ul style="list-style-type: none"> <li>- Serial and/or lot numbers of the hardware processed (if required)</li> <li>- Material process specification &amp; revision number</li> <li>- Certification stating the special process was performed per the drawing/specification requirements</li> <li>- Processing Organization's name and address</li> <li>- Signature and date by a company official of the Processor attesting that the processes were performed to the required drawing/specification(s) and satisfy required acceptance criteria.</li> </ul> <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>For reference, Lockheed Martin defines a special Process as a method controlled by a contractually required specification where:</p> <ol style="list-style-type: none"> <li>1. A product undergoes a physical, chemical or metallurgical transformation or inspection. Conformance to the specification cannot be readily verified by normal inspection methods, and</li> <li>2. 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 or standards.</li> </ol> <p>Contractually required specifications are identified on the drawing or parts list for build-to-print items or identified within a designated section of the controlling specification for items being procured under the contract line item of this Purchase Order.</p>
<p>QSPS</p>	<p>Q</p>	<p>SPECIAL PROCESS APPROVAL AND CERTIFICATION</p>	



			The submittal documents the original process, the proposed change, and the verification methods to be used to ensure the change performs and influences the product only as expected.
QA9	Q	LM PQA NOTIFICATION OF SUPPLIER CHANGES	The Organization shall provide in writing advance notification to their LM Contract Administrator of any change(s) to, Name, Quality Management Systems, Ownership, facilities, or processes at the Organization or the Organizations sub-tier that could affect the Customers contracted product.
QAQC11	Q	AQC11 CHANGE AUTHORITY	The Organization shall provide in writing advance notification to the Customer of any change(s) to tooling, facilities, materials or processes at the Organization or the Organizations sub-tier that could affect the Customers contracted product. This includes, but is not limited to, fabrication, assembly, handling, testing, facility location or introduction of a new sub-tier supplier.
QAQC23	Q	AQC23 NONCONFORMANCE REPORTING	<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>





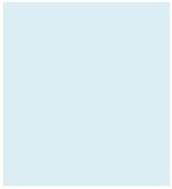
Return to Subtier Supplier. This authority does not extend to the use of a Material Review Board (MRB) for

TESTING / TEST SAMPLES	
Q32	Q



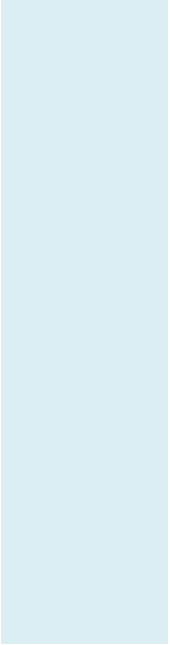
			(1) batch or lot number; (2) date manufactured; (3) specification or material control information number; (4) Contractor's designation; (5) contract number.
QCG	Q	ENVIRONMENTAL TEST LIMITS	Seller shall assure that weapons specifications (environmental test limits) are not exceeded. Review environmental 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.
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.
<b>DATA / TEST REPORTS</b>			
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

			<p>(except castings), certifications for chemistry may indicate compliance within the allowed range. Certifications for physical properties will show actual values.</p> <p>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).</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 co</p>









INSPECTION (CSI) -  
NON MATERIAL  
BACKED PR

Assurance Representative (PQAR) assigned to the Organization's facility so the appropriate inspection plan can be coordinated.

The supplier shall use EXOSTAR to arrange source inspection. The supplier may view a source inspection request process document using the following link:

<http://www.lockheedmartin.com/content/dam/lockheed/data/corporate/documents/suppliers/spacedoc/space doc->

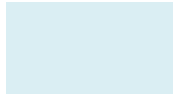


QTD2

Q FIRST ARTICLE  
INSPECTION



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	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



DOCUMENTATION  
DATA

shipping documentation. When “ship-in-place” is required by the buyer, and a supplier shipper or packing





			<p>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>
<b>FBM</b>			
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 Supplier









QZ170	Q	D068737	D068737, RF Termination Unit -- PAQR
QZ171	Q	D101595	D101595, Checklist for Subcontractor Requests for Waiver Authorization

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 Rq(ea)4 1 279.89ifact BMC 0 g72 271.37 0.48 0.47998 ref*72r998 0.47998 ref*72 201.8











	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		



	Added: QA10	CLASS 1 or CLASS 2 Changes; GPS3 Program Specific
	Added: QSQAP	QPS3 Quality Assurance Plan; GPS3 Program Specific
10/5/2009	Edited: QAQC09	Included approval requirements for Calibration System.
	Added: QT4F	Counterfeit EEE

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/NCSS 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



11/17/2015	Removed: Q19B, Q37, Q57, QA2C, QA4H, QAQC05, QAQC07, QAQC10, QAQC12, QAQC18, QAQC19, QAQC30, QAQC31, QB12, QCC, QD13, QD15, QD16, QD5, QD8, QGL, QLT, QP3, QQD4K7, QQMY, QQS5, QQS5C, QQT8, QQTC5, QS11, QS5B, QS7, QT4C, QT4F, QTB9, QTC1, QTC3, QTR	Codes Deactivated
	Edited: QAQC13	Updated text to align with the language required by the Acquisition Compliance matrix
9/26/2016	Removed: QTU	Code Deactivated
	Added: QDTS	Dock To Stock Process
	Added: QB14	Supplier Data Sheet Submittal
	Added: QQBR	Reduced Dimensional Inspection Report
	Updated: QCF	Updated text to include physical and electronic signature
	Updated: QAQC08	Updated text of where contractually required specifications are identified
	Updated: QD27	Updated text to remove reference to DEN 412610
6/5/2017	Added: QBRCB	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
10/21/2019a		

	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
2/24/2021	Updated: QEDSS	Updated text
3/16/2021	Updated: QEDSS	Fixed Link