

## **Lockheed Martin Space Quality Clauses**

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

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

### **Quality Clause Cross Reference Instructions:**

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

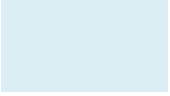
If you have any questions regarding the use of this list, please contact the subcontract administrator as identified on the procurement document.

# Quality Clauses

Q-Code	QI D	Title	Long-Text
<b>QUALITY MANAGEMENT SYSTEMS</b>			
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



			<ol style="list-style-type: none"> <li>1. Highlight the special process</li> <li>2. Select special processors</li> <li>3. Select <u>yourself</u> as the special processor             <ol style="list-style-type: none"> <li>a. If your name does not show up as an approved processor, contact your LM buyer to have the hierarchy table updated.</li> </ol> </li> </ol> <p>For additional information on how to use the ship-to-module, view the downloadable guide <a href="#">here</a>.</p>
<b>SUPPLIER REQUIREMENTS</b>			
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 P17 reW* nv3sed for final acceptance must be calTf</p>






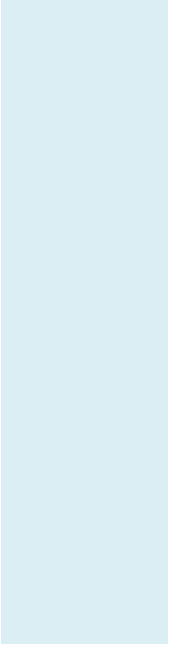
QTP	Q	PRODUCT ASSURANCE OD63425 APPLIES	Active Supplier and supplier's subtiers shall comply with the requirements of the current issue of OD63425 for all materials and processes specified in design disclosure called out in this purchase order or subcontract. Requests for changes to OD63425 to add or modify substitutions shall be submitted to LM subcontracts via a Supplier (Supplier) Request for Information or Change (VRIC) in accordance with A689426.
QEDSS	Q	ELECTRONIC DATA SUPPLIER SUBMITTAL	<p>All supplier documentation must be submitted electronically to LM Space using the Electronic Data Supplier Submittal (EDSS) system.</p> <p>EDSS is a proven data storage and retrieval system used by LM Space to provide secure, two-factor authentication storage and retrieval of supplier data. Supplier access to the EDSS tool is achieved by using "AccessLM".</p> <p>Supplier must contact the LM Space Supply Chain Quality Assurance EDSS sponsor or their LM Space Global Supply Chain representative for help/support on obtaining access to "AccessLM" and use of the EDSS tool</p> <p>Send Email to EDSS Resource Account: Fc-Lmssm, Wgc-Edss (RESOURCE) <a href="mailto:wgc-edss.fc-lmssm@lmco.com">wgc-edss.fc-lmssm@lmco.com</a> to contact EDSS sponsor.</p> <p>EDSS training material can be found: <a href="https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/space.html">https://www.lockheedmartin.com/en-us/suppliers/business-area-procurement/space.html</a></p>
<b>CERTIFICATE OF CONFORMANCE</b>			
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 certifiuufacturer) shall provrONFOR





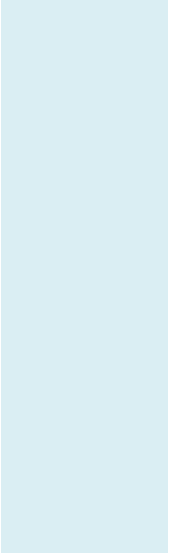
			*All definitions can be found at the following link under 'Counterfeit Work Definitions': 
<b>APPROVAL / ACCEPTANCE</b>			
QA1	Q	LOCKHEED MARTIN ACCEPTANCE AT DESTINATION	

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	

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- Serial and/or lot numbers of the hardware processed (if required)
  - Material process specification & revision number
  - Certification stating the special process was performed per the drawing/specification requirements
  - Processing Organization's name and address
  - 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.

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.

For reference, Lockheed Martin defines a special Process as a method controlled by a contractually

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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.

Note: preliminary review does not negate the requirement to identify, segregate, document, report and disposition nonconformances.

Nonconformances shall be reported to the customer under the following conditions. When notification is

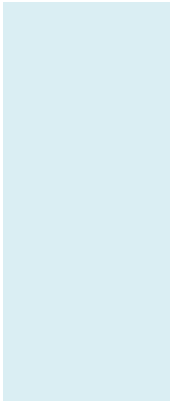
<p>QLZ</p>	<p>Q</p>	<p>FAILURE/DISCREPANCY THRESHOLD</p>	<p>Return to Subtier Supplier. This authority does not extend to the use of a Material Review Board (MRB) for the purpose of changing engineering criteria, which can only be accomplished by drawing change.                  If this Purchase Order 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 ---&gt; Failure/Discrepancy Threshold = 20%,Crystal Oscillators ---&gt; Failure/Discrepancy Threshold = 20%,Diodes and Transistors ---&gt;Failure/Discrepancy Threshold = 20%,Fuses ---&gt; Failure/Discrepancy Threshold = 15%, Micr</p>
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TESTING / TEST SAMPLES		
Q32	Q	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
	PART QUALIFICATION TESTS	

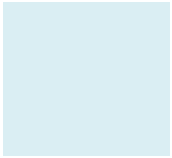


			(1) batch or lot number; (2) date manufactured; (3) specification or material control information number; (4) Contractor's designation; (5) contract number.
QCG	Q	ENVIRONMENTAL TEST LIMITS	Seller shall assure that weapons specifications (environmental test limits) are not exceeded. Review environmental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

(except castings), certifications for chemistry may indicate compliance within the allowed range.



			<p>electronic approval method.</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>
<p>QD26</p>	<p>Q</p>	<p>ORDNANCE REQUIREMENTS – COMPETENT AUTHORITY DOC</p>	<p>Explosives Documentation and Shipping Information</p> <p>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 sscn th</p>



- 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

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.

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.

NON MATERIAL  
BACKED PR

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-request-source-insp.pdf>

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.

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.

			mandatory inspections. All CC inspection characteristics must be included in the shop travelers before starting production and include a space for DCMA to buy-off (stamp or physical/electronic signature) at each attribute. If a Navy Gage is used at your facility for the verification of a hardware feature, then the Gage(s) must be maintained in accordance with OD60758, Procedure-Receipt, Care and Shipment of Navy Special Interface Gages. See enclosure to this PO for the list of CC's. The enclosure, sent out as a part of this PO, is the governing document unless superseded by a Purchase Order Change Notice. If the CC listing is not an enclosure in this PO it must be obtained from DCMA. Note: Only those CC's attributes that are affected in a Rework/Repair/SLE PO shall require re-inspection and require a space in the shop traveler for DCMA stamp or physical/electronic signature.
QCV	Q	FACILITY ENGINEERING SOURCE INSPECTION	LM source inspection is required at the manufacturing plant. Contact LM Facility Engineering at (321) 476-7382 between the hours of 0730800 and 1615 00 EPST for direction and scheduling of source actions as required.
QPWB3	Q	PWB CONFORMANCE COUPON	





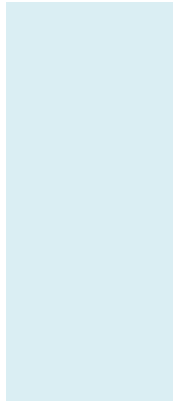
QC7 Q SENSITIVE

		DOCUMENTATION DATA	list is not applicable shipment documentation, the seller shall record the required identification on the seller's invoice.
<b>RETENTION / TRACEABILITY</b>			
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	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

			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.







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











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









# REVISION LOG

Date	Change	Details
10/17/2006	Added: QZ299	SMP010700U04 –







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 - 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: QZZ	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



11/17/2015	Removed: Q19B, Q37, Q57, QA2C, QA4H, QAQC05, QAQC07, QAQC10, QAQC12, QAQC18, QAQC19, QAQC30, QAQC31, QB12, QCC, QD13, QD15, QD16, QD5, QD8, QGL, QLT, QP3, QQD4K7, QQMY, QQS5, QQS5C, QQT8, QQTC5, QS11, QS5B, QS7, QT4C, QT4F, QTB9, QTC1, QTC3, QTR	Codes Deactivated
	Edited: QAQC13	Updated text to align with the language required by the Acquisition Compliance matrix
9/26/2016	Removed: QTU	Code Deactivated
	Added: QDTS	Dock To Stock Process
	Added: QB14	Supplier Data Sheet Submittal
	Added: QQBR	Reduced Dimensional Inspection Report
	Updated: QCF	Updated text to include physical and electronic signature
	Updated: QAQC08	Updated text of where contractually required specifications are identified
	Updated: QD27	Updated text to remove reference to DEN 412610
6/5/2017	Added: QBRCD	Barcoded Label Requirement
	Updated: QS8	Updated text to include supplier submittal requirements
9/27/2017	Edited: QT4B, QD4A, QD4B, QD4C, QAQC02	Updated text to standardize verbiage and clarify substitution QMS certification
1/10/2018	Added: QPWB3	PWB Conformance Coupon Inspection - Third Party
	Added: QPQBLM	PWB Conformance Coupon Inspection - LMSSC
5/13/2018	Added: QSP	Special Process Approval and Certification
10/21/2019  *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 clarificatio