

## **Lockheed Martin Space Systems Company Quality Clauses**

Lockheed Martin hereinafter shall mean Lockheed Martin Space Systems Company. 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).

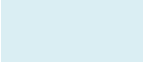
Articles defined in the Procurement Document will not be accepted by Lockheed Martin if the Supplier fails to submit certification, document

# Quality Clauses

Q-Code	QID	Title	Long-Text
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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)	



 registrar will be accepted. Contractor declaring system compliance with no formal accredited registrar will be





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			





Ship-To Barcode generation tab prior to shipping material.

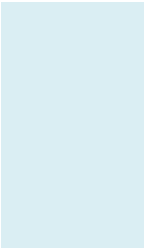
Definitions:

Special Process: A method controlled by a contractually required specification where:

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
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.

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	

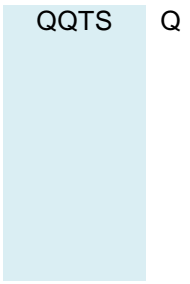
			<p>Note: preliminary review does not negate the requirement to identify, segregate, document, report and disposition nonconformances.</p> <p>Nonconformances shall be reported to the customer under the following conditions. When notification is required, notification shall be within 3 working days after the nonconformance is discovered.</p> <ul style="list-style-type: none"> <li>· The problem is detected during one of the following: <ol style="list-style-type: none"> <li>1. Certification, acceptance, or qualification testing</li> <li>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.</li> </ol> </li> <li>· And it is: <ol style="list-style-type: none"> <li>1. Flight hardware</li> <li>2. Flight Hardware Spares</li> <li>3. Equipment that is representative of flight hardware (flight-like hardware), including prototype and qualification hardware</li> <li>4. Ground Support Equipment (GSE) that is safety critical</li> </ol> </li> </ul>
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"> <li>1) Date of report;</li> <li>2) Contract number;</li> <li>3) Contractor's name and address;</li> <li>4) Part name, number, revision level, and serial/number;</li> <li>5) MARS number (if specified by Contract);</li> <li>6) Specific and contributory causes of failure;</li> <li>7) List of parts required to repair item(s);</li> <li>8) Corrective action taken to preclude recurrence and effectivity by date or serial number of corrective action;</li> <li>9) Signature and title of Contractor's Quality Representative approving the failure analysis report.</li> </ol>
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 ---&gt; Failure/Discrepancy Threshold = 20%,Crystal Oscillators ---&gt; Failure/Discrepancy Threshold = 20%,Diodes</p>



and Transistors ---



QQTS Q



REQUIRED

			<p>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 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/FORGINGS)	In addition to chemical/physical test reports stating the actual chemical and mechanical properties for each lot submitted, inspection/test data listed below shall be submitted for each lot of castings or forgings as required by specification or Contract. Certification for Magnetic Particle, Fluorescent Penetrant Inspection, Ultrasonic Inspection, Pressure Test, and Grain Flow shall be submitted with the order. Radiographic Inspection results including film for each casting shall be supplied. These reports shall be validated by an authorized representative of the Contractor's Quality Department, by either an inspection stamp or signature.
QB4	Q	TEST REPORTS - SUBMITTAL	
QD26	Q	ORDNANCE REQUIREMENTS COMPETnBT/F4 TJ belis	







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/lock>













QM17	Q	SINGLE DATE/LOT CODE	<p><b>RECORDS</b></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> <p>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. When mixed date/lot codes are authorized, the</p>
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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>
<b>FBM</b>			
QZ322	1	SMP010720U11	SMP010720U11 Letter of Agreement Between Lockheed Martin Space Systems Company (LMSSC) 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		







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 SYSTEMS COMPANY SUNNYVALE, CA AND MEGGITT SAFETY SYSTEMS, SIMI VALLEY, CA.
QZ170	Q		

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

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			



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 Trident 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 Systems Company (LMSSC) AND Paine Electronics LLC (Paine).
QZ318	Q	SMP010713U08	SMP010713U08 Letter of Agreement between Lockheed Martin Space Systems Company and Perkin Elmer OptoElectronics 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

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.

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

# 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	FBM request
	Updated: QYW	accredited registrar will be accepted. Contractor declaring system compliance to AS9003 with no formal accredited registrar will be rev 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	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

	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



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



