

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

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-

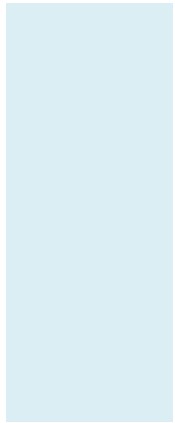
QQD4K3	Q	<p>QUALITY PROGRAM REQUIREMENTS (ANSI/NCSL Z540.1)</p>	<p>The Contractor's Calibration System shall conform to the requirements of the elements described in ANSI/NCSL Z540.1, either part 1 or part 2, and is subject to review and approval at all times by Lockheed Martin.. Third party registration 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.</p>
QQD4K6	Q	<p>ISO 17025 – TEST FACILITY REQUIREMENTS</p>	<p>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</p>

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



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)

Special Process approval are in Exostar prior to special process being performed through completion, with a buy-off step annotated.

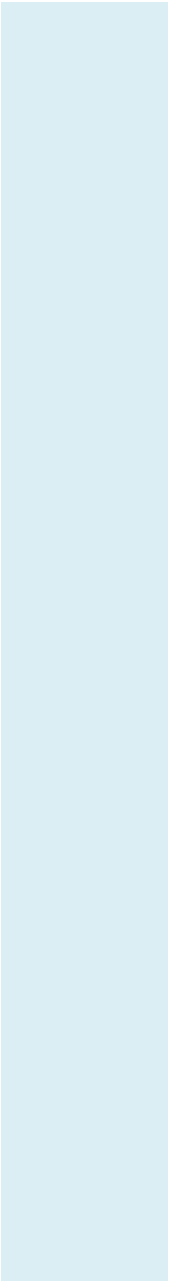
Note: There is an LM-controlled hierarchy table running in the background. When the contractor searches for a specific 10-digit approval code, the output will show all suppliers approved to that approval code and all suppliers approved to an acceptable hierarchy approval code. You must also verify supplier's QMS approval.

To look up supplier approvals:

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

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>QSPS</p>	<p>Q</p>	<p>SPECIAL PROCESS APPROVAL AND CERTIFICATION</p>	<ul style="list-style-type: none"> - 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. 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>Methods for obtaining EXOSTAR/P2P 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, ESDA. <p>The Contractor shall insert the substance of this clause, including this sentence, in all lower-tier purchase orders for work performed under this Purchase Order 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</p>
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		<ul style="list-style-type: none">- 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. <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>Methods for obtaining EXOSTAR/P2P 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, ESDA. <p>The Contractor shall insert the substance of this clause, including this sentence, in all lower-tier purchase orders for work performed under this Purchase Order</p>
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NON-CONFORMANCE / CHANGE PERFORMANCE

			<p>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>
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QB9

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TEST SAMPLES

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

QB2B

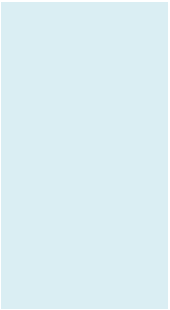
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SUPPLEMENTAL
DATA
REQUIREMENTS
(CASTINGS/FORGING
S)

In addition to chemical/physical test reports stating the actual chemical and mechanical properties for each

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	

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.



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.

The Organization shall make available to the PQAR all applicable drawings, specifications, procedures,

			<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</p>

s.10 (S)-7.60 (r)29.640 (i)5 (b)-10.20 (u)C)-1.80 (Tm 0 T2365.1062(a)1.80 (ndP()1.80Wdc)-7 (IB)1..20 CO f EMC N /P <</MCO(e)1.7) R g BT31T /Y(1 ns)-NCD 6 Tf 1 SMATIOe1 9CO f ((UP

			<p>Tape and reel requirements.</p> <ul style="list-style-type: none"> x Tape and reel must include a leader and trailer. x Digi-reel MouseReel and similar value-added options are acceptable alternates when parts are ordered from those distributors. x 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). Regarding EEE components/assemblies: The Supplier shall mark EEE Non-Flight devices being delivered or accompanying flight Electronic, Electrical, and Electromagnetic (EEE) components/assemblies with a permanent "yellow dot" unless otherwise specified per the drawing or spec and mark the unit packaging label "NFI". The yellow dot is not required when size precludes marking of small EEE components. Should directions for this marking contradict the component/assembly drawing or specification, drawing or specification shall take precedence.</p>
QYH	Q	SOURCE INSPECTION SHIPPING DOCUMENTATION DATA	<p>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</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	<p>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</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.

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.

RECORDS

The contractor shall maintain fabrication records which summarize the identification of elements within an

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">x 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.x The Supplier shall provide an electronic copy of most recent test data to the Purchasing Agency for verification.x 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>
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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

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

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] TJ 1 0 0 1 279.8298 465.6 Tm [(S)3.30 (u)1.80 (p)- 1 0 0f83 Tm [(P)0 (o)1.80CID 26 >> BDC BT /F2 9.96 Tf910 (S)-0 (t)-12 (i)5 o0 (t)1.DEP 0 Suppt (i)5 (e)1.80 (r)-5.30 ()99 440)] TJ ET EMC /Artifact BMC99 440 (to)3.40 ()] TJ 1 Ore f 7299 4406.95999 62.2	



QZ30 Q F120040

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	SMP010732U05-19 – FBM program specific
	Updated: QN5	Updated F120161 to Rev E, updated F120172 to Rev C
	Updated: QT8	Updated to reflect Parts, Materials & Processes
	Updated: QASIA	Updated to reflect PMP
	Updated: QZ241	Updated to reflect D915701 instead of D915700 -12.3r/Artifact ro<</MCID 31 >> BDC BT /F3 9.33

	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

10/5/2009	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.
	Added: QT4F	

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: Com Com 17e395.51 Tm 0 Tr [870 (m)1.70 (17e395.5(Re)1.90 (p)1.80 (l.47999(Re)1.90a398 Tm 0 Tr [(*)3.40 (A)4.40 0 Tr [(Re)1.90 (

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

to replace SMP010762U08 with SMP10764U09 (per FBM request)
d for supplier requirement clarification. Q4M is NOT to be flowed on
pose is to provide information to suppliers that are Q4M approved.

date to the doc was made to remove "Systems Company" from
Space references.

require a minimum 1" font size and placement of time and
sitive label.

to remove Rev reference.
QPOR to correct the typo.

contain Supplier Quality Field Representative instead of QPAR

Updated: QSP, QSPS

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 procd

Updated: QSQAP

11/16/2023

Updated: QAQC14 and QAQC14A

Updated: QPOR