Document 253-01 12/19/2023

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

QLM

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.

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.

request survey/approval.

Loss of Quality Management System certification, change of manufacturing location, or process change that

REQUIREMENT

			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. The controls and related responsibilities for dealing with nonconforming product shall be defined in a documented procedure. 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.” 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. 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. 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 required, notification shall be within 3 working days after the nonconformance is discovered. · The problem is detected during one of the following: 1. Certification, acceptance, or qualification testing 2. Other “significant” test as specified by the customer 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. · And it is: 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	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: 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);

			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	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: 1. change in its quality system status; 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

			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

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 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.

Q6Z7	Q	LOT DATE CODE SEVEN YEARS

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 ity, proh 127.914.30

QT9	Q

QZ260	1	D915721

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 Dispostion 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)

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	

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

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	

	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
5/4/2010	Edited: QZ109	Edited clause title and text to align with document text

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: Q2Z	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	80 (l)-6.80 (a)1.70 (c)-5.90 (ed)3.10 ( )-11 (a)2.70 (p)1.70 (p)1.80 (r)-4.20 (ov)-4.60 (e)-10.20 (d)1.70

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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		

	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

11/16/2023	Updated: QSP, QSPS Updated: QSQAP Updated: QAQC14 and QAQC14A Updated: QPOR	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. 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) QAQC14 and QAQC14A: Updated link in description to https://www.myexostar.com/?ht_kb=lmp2p-training-resources 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.
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.