

A. INCORPORATION OF THE FEDERAL ACQUISITION REGULATION (FAR) AND THE DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION SUPPLEMENT (DFARS)

The FAR and DFARS clauses referenced below are incorporated herein by reference, with the same force and effect as if they were given in full text, and are applicable, including any notes following the clause citation, to this Contract. If the date or substance of any of the clauses listed below is different from the date or substance of the clause actually incorporated in the Prime Contract referenced by number herein, the date or substance of the clause incorporated by said Prime Contract shall apply instead. The Contracts Disputes Act shall have no application to this Contract, and nothing in this Contract grants SELLER a direct claim or cause of action against the U.S. Government. Any reference to a "Disputes" clause shall mean the "Disputes" clause of this Contract. SELLER shall include in each lower-tier subcontract the appropriate flow down clauses as required by the FAR and FAR Supplement clauses included in this Contract.

B. GOVERNMENT SUBCONTRACT

- (a) This Contract is entered into by the parties in support of a U.S. Government contract.
- (b) As used in the FAR and DFARS clauses referenced below and otherwise in this Contract:
 - 1. "Commercial product" means any such product as defined in FAR 2.101.
 - 2. "Commercial service" means any such service as defined in FAR 2.101.
 - 3. "Commercially available off-the-shelf (COTS) item" means a COTS item as defined in FAR 2.101
 - 4. "Contract" means this contract.
 - 5. "Contracting Officer" shall mean the U.S. Government Contracting Officer for LOCKHEED MARTIN's government prime contract under which this Contract is entered.
 - 6. "Contractor" and "Offeror" means the SELLER, which is the party identified on the face of the Contract with whom Lockheed Martin is contracting, acting as the immediate subcontractor to LOCKHEED MARTIN.
 - 7. "Prime Contract" means the contract between LOCKHEED MARTIN and the U.S. Government or between LOCKHEED MARTIN and its higher-tier contractor who has a contract with the U.S. Government.
 - 8. "Subcontract" means any contract placed by SELLER or lower-tier subcontractors under this Contract.

C. INDEMNITY

SELLER shall indemnify and hold LOCKHEED MARTIN harmless from and against any cost, price reduction, withholding, offset, penalty, interest, claim, demand, determination of unallowability, unallocability or unreasonableness, or any other civil, criminal, or administrative liability, whether arising under statute, regulation, contract or common law, and shall reimburse LOCKHEED MARTIN for all of its damages and associated costs, including reasonable attorney fees and other expenses, if said liability is attributable to the SELLER or SELLER's suppliers' failure to comply with these U.S. Government Provisions and Clauses.

D. RESERVED

E. PROVISIONS OF FAR/DFARS INCORPORATED BY REFERENCE

The FAR/DFARS clauses listed herein are applicable to this Contract if required under the pertinent law or regulation. If the applicability condition(s) in the relevant law or regulation is(are) not met, or LOCKHEED MARTIN does not require information or data from SELLER to satisfy its obligations, the

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clause is not applicable to this Contract. The applicability statements, statutory references, and regulatory references set forth in the parentheses, if any, after each clause below are for convenience only.

Type	Clause No.	Title	Date	Modifications
DFARS	252.204-7004	Antiterrorism Awareness Training for Contractors. (Formerly: Alternate A, System for Award Management ... Removed by DPN	Feb-19	None.
DFARS	252.211-7006	Passive Radio Frequency Identification.	Mar-18	
DFARS	252.211-7007	Reporting of Government-Furnished Property.	Aug-12	
DFARS	252.211-7008	Use of Government-Assigned Serial Numbers	Sep-10	None.
DFARS	252.225-7015	Restriction on Acquisition of Hand or Measuring Tools.	Jun-05	None.
DFARS	252.225-7025	Restriction on Acquisition of Forgings.	Dec-09	Applies if the Work contains forging items described by the clause.
DFARS	252.225-7027	Restriction on Contingent Fees for Foreign Military Sales.	Apr-03	The reference to the clause in paragraph (a) means FAR 52.203-5. The blank in paragraph (b)(1) is completed with "any Government." Subparagraph (b)(2) is deleted.
DFARS	252.225-7036	Buy American-Free Trade Agreements--Balance of Payments Program.	Dec-17	
DFARS	252.227-7014	Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation.	Feb-14	
DFARS	252.234-7004	Cost and Software Data Reporting System.	Nov-14	In paragraph (b), "Government" means Lockheed Martin.
DFARS	252.243-7002	Requests for Equitable Adjustment.	Dec-12	
DFARS	252.245-7001	Tagging, Labeling, and Marking of Government-Furnished Property.	Apr-12	
DFARS	252.245-7004	Reporting, Reutilization, and Disposal.	Dec-17	
DFARS	252.246-7001	Warranty of data.	Mar-14	"Government" means "Lockheed Martin or the Government." "Contracting Officer" means "Lockheed Martin." The last sentence in paragraph (b) is changed to read as follows: The warranty period shall extend for three years after completion of delivery of the data to Lockheed Martin, or if the data is delivered to the Government, either by Lockheed Martin or Seller, the warranty period shall extend for three years after delivery to the Government."
FAR	52.204-23	Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered	Jul-18	

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FAR	52.209-6	Protecting the Governments Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment.	Oct-15	
FAR	52.215-20 ALT I	Alternate I - Requirements for Certified Cost or Pricing Data and Data Other Than Certified Cost or Pricing Data.	Oct-10	
FAR	52.215-21 ALT III	Alternate III - Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data- Modifications.	Oct-97	
FAR	52.223-18	Encouraging Contractor Policies to Ban Text Messaging While Driving.	Aug-11	
FAR	52.227-10	Filing of Patent Applications -- Classified Subject Matter.	Dec-07	
FAR	52.232-17	Interest.	May-14	"Government" means "LockheedMartin."
FAR	52.232-39	Unenforceability of Unauthorized Obligations.	Jun-13	None.
FAR	52.239-1	Privacy or Security Safeguards.	Aug-96	N/A.
FAR	52.242-15 ALT I	Alternate I - Stop-Work Order.	Apr-84	
FAR	52.242-2	Production Progress Reports.	Apr-91	"Contracting Officer" means "LockheedMartin."
FAR	52.243-2 ALT II	Alternate II - Changes-Cost-Reimbursement.	Apr-84	
FAR	52.245-9	Use and Charges.	Apr-12	

F. GOVERNMENT CONTRACT CLAUSES INCORPORATED BY FULL-TEXT

C-223-H003 EXCLUSION OF MERCURY (NAVSEA) (MAR 2019)

(a) Definitions. As used in this text:

Article means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

Boundary of containment means a continuous tight seal (barrier) to prevent the release of functional mercury during normal operation and maintenance. Examples include the exterior of a fluorescent lamp, glass capsule of a mercury switch, and container for mercury reagents. A double boundary of containment consists of two independent seals.

Functional mercury means mercury or mercury compound(s) contained in equipment that is required for the equipment to operate properly, such as that found in mercury switches, fluorescent lamps, flat-panel monitors, thermostats, thermostat probes, small coin type batteries, barometers, and dental amalgams.

Hardware means any article, container, piece of material, individual part, subassembly, assembly, component, or system to which mercury control requirements apply.

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Mercury-free means hardware that does not contain functional mercury and is not contaminated by mercury or mercury compounds.

Portable means items that are frequently transported during normal operation. Desk lamps, shop lights, and hand-held instruments are considered portable, while bulbs in stationary light fixtures are not. In general, items that require transport only during maintenance, installation, and removal of the items are not considered portable.

(b) The Contractor, and all subcontractors and vendors, shall ensure that mercury or mercury containing compounds are not intentionally added to, or come in direct contact with, hardware or supplies furnished under this contract.

(1) The Contractor shall ensure that mercury and mercury compounds are not taken onboard naval vessels by Contractor, subcontractor, or vendor personnel except for functional mercury used in batteries, dental amalgams, fluorescent lamps, flat-panel monitors, required instruments, sensors or controls, weapon systems, and chemical analysis reagents specified by the Naval Sea Systems Command (NAVSEA).

(2) Portable fluorescent lamps and portable instruments containing elemental mercury must be shock-proof in accordance with MIL-DTL-901E entitled Requirements for Shock Tests, H.I. (High Impact) Shipboard Machinery, Equipment, and Systems and have mercury enclosed by a double boundary of containment. Some devices with liquid crystal display (LCD) screens utilize a fluorescent bulb backlight to illuminate the LCD screen. No additional restrictions or controls apply to devices with LCD screens; however, the Contractor shall remove the LCD screen and seal it in plastic following any evidence that the backlight failed.

(3) For Submarines, any use of mercury containing items must be approved as required by the Nuclear Powered Submarine Atmosphere Control Manual (S9510-AB-ATM-010/U) Volume 1.

(4) The Contractor shall ensure that mercury and mercury compounds do not contact hardware surfaces in systems covered by NAVSEA Manual NAVSEA 0989-064-3000 entitled Cleanliness Requirements for Nuclear Propulsion Plant Maintenance and Construction, submarine air systems, level I systems per NAVSEA Publication 0948-LP-045-7010, NAVSEA Material Control Standard, or the submarine safety program (SUBSAFE) surfaces during maintenance or repair. Such hardware is designated as mercury-free. The Contractor shall ensure that all other hardware that could be structurally degraded by contamination with elemental mercury or reactive mercury compounds is separated from it by sufficient distance, or boundaries of containment that effectively prevents contact in all but the most extreme circumstances.

(5) The Contractor shall check any hardware surfaces in the above systems which are known or suspected to have come in contact with mercury or mercury compounds for evidence of structural degradation and external mercury contamination. The existence of external mercury contamination can be determined following MIL-STD-2041D entitled Control of Detrimental Materials.

(6) The presence of mercury in a product may be determined by checking product labeling on material safety data sheets or safety data sheets. Chemical analysis is not required.

(7) The Contractor shall dispose of any mercury and mercury compounds in accordance with OPNAV Manual (OPNAV M-5090.1) entitled Environmental Readiness Program Manual of 10 January 2014.

(8) If the use of mercury or mercury compounds cannot be avoided, a risk assessment and waiver request, if required, must be performed and submitted per the NAVSEA Hazardous Material Avoidance Process (T9070-AL-DPC-020/077-2). For systems covered by the NAVSEA Manual NAVSEA 0989-064-3000 entitled Cleanliness Requirements for Nuclear Propulsion Plant Maintenance and

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Construction, submit the risk assessment and waiver request, if required to Nuclear Propulsion (NAVSEA 08).

(c) In all cases where mercury or a mercury compound has contacted hardware surfaces required to be mercury-free the Contractor shall immediately provide a report to the NAVSEA Dry Environmental Systems and Hazardous Materials (NAVSEA 05P5) via the cognizant contract administration safety office. Reports concerning systems covered by NAVSEA Manual 0989-064-3000 must include NAVSEA Nuclear Propulsion Directorate (SEA 08) in the distribution. Reports must be in letter form and include the date and details of the contact, the surfaces contacted, the recovery actions taken, and the status of the affected surfaces.

(End of Text)

C-227-H009 ACCESS TO DATA OR COMPUTER SOFTWARE WITH RESTRICTIVE MARKINGS (NAVSEA) (JAN 2019)

(a) Performance under this contract may require that the Contractor have access to technical data, computer software, or other sensitive data of another party that contains restrictive markings. If access to such data or software is required or to be provided, the Contractor shall enter into a written agreement with such party prior to gaining access to such data or software. The agreement shall address, at a minimum, (1) access to, and use of, the restrictively marked data or software exclusively for the purposes of performance of the work required by this contract, and (2) safeguards to protect such data or software from unauthorized use or disclosure for so long as the data or software remains properly restrictively marked. In addition, the agreement shall not impose any limitation upon the Government or its employees with respect to such data or software. A copy of the executed agreement shall be provided to the Contracting Officer. The Government may unilaterally modify the contract to list those third parties with which the Contractor has agreement(s).

(b) The Contractor agrees to: (1) indoctrinate its personnel who will have access to the data or software as to the restrictions under which access is granted; (2) not disclose the data or software to another party or other Contractor personnel except as authorized by the Contracting Officer; (3) not engage in any other action, venture, or employment wherein this information will be used, other than under this contract, in any manner inconsistent with this requirement; (4) not disclose the data or software to any other party, including, but not limited to, joint venturer, affiliate, successor, or assign of the Contractor; and (5) reproduce the restrictive stamp, marking, or legend on each use of the data or software whether in whole or in part.

(c) These restrictions on use and disclosure of the data and software also apply to information received from the Government through any means to which the Contractor has access in the performance of this contract that contains restrictive markings.

(d) The Contractor agrees that it will promptly notify the Contracting Officer of any attempt to gain access to any information with restrictive markings. Such notification shall include the name and organization of the individual, company, or Government representative seeking access to such information.

(e) The Contractor shall include this requirement in subcontracts of any tier which involve access to information covered by paragraph (a), substituting "subcontractor" for "Contractor" where appropriate.

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(f) Compliance with this requirement is a material requirement of this contract.

(End of text)

C-227-H010 COMPUTER SOFTWARE AND COMPUTER DATA BASES DELIVERED TO OR RECEIVED FROM THE GOVERNMENT (NAVSEA) (JAN 2019)

(a) The Contractor agrees to test for viruses, malware, Trojan Horses, and other security threats such as those listed in NIST Special Publication 800-12 Rev 1, An Introduction to Computer Security, The NIST Handbook, Chapter 4, in all computer software and computer data bases (as defined in the clause entitled "Rights In Noncommercial Computer Software and Noncommercial Computer Software Documentation" (DFARS 252.227-7014)), before delivery of that computer software or computer data base in whatever media and on whatever system the computer software or data base is delivered whether delivered separately or imbedded within delivered equipment. The Contractor warrants that when delivered any such computer software and computer data base shall be free of viruses, malware, Trojan Horses, and other security threats such as those listed in NIST Special Publication 800-12 Rev 1.

(b) The Contractor agrees that prior to use under this contract, it shall test any computer software and computer data base received from the Government for viruses, malware, Trojan Horses, and other security threats listed in NIST Special Publication 800-12 Rev 1, An Introduction to Computer Security, The NIST Handbook, Chapter 4.

(c) Any license agreement governing the use of any computer software or computer software documentation delivered to the Government as a result of this contract must be paid-up, irrevocable, world-wide, royalty-free, perpetual and flexible (user licenses transferable among Government employees and personnel under Government contract).

(d) The Contractor shall not include or permit to be included any routine to enable the contractor or its subcontractor(s) or vendor(s) to disable the computer software or computer data base after delivery to the Government.

(e) No copy protection devices or systems shall be used in any computer software or computer data base delivered under this contract with unlimited or Government purpose rights (as defined in DFARS 252.227-7013 and 252.227-7014) to restrict or limit the Government from making copies.

(f) It is agreed that, to the extent that any technical or other data is computer software by virtue of its delivery in digital form, the Government shall be licensed to use that digital-form data with exactly the same rights and limitations as if the data had been delivered as hard copy.

(g) Any limited rights legends or other allowed legends placed by a Contractor on technical data or other data delivered in digital form shall be digitally included on the same media as the digital-form data and must be associated with the corresponding digital-form technical data to which the legend(s) apply to the extent possible. Such legends shall also be placed in human-readable form on a visible surface of the media carrying the digital-form data as delivered, to the extent possible.

(End of text)

D-247-W002 UNPACKING INSTRUCTIONS (NAVSEA) (OCT 2018) – *Conditionally mandatory and applies only to direct drop shipments to a U.S. Government installation or defense depot where Navy-level unpacking is required*

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(a) Location on Container. When practical, one set of the unpacking instructions will be placed in a heavy water-proof envelope prominently marked "UNPACKING INFORMATION" and firmly affixed to the outside of the shipping container in a protected location, preferably between the cleats on the end of the container adjacent to the identification marking. If the instructions cover a set of equipment packed in multiple containers, the instructions will be affixed to the number one container of the set. When the unpacking instructions are too voluminous to be affixed to the exterior of the container, they will be placed inside and directions for locating them will be provided in the envelope marked "UNPACKING INFORMATION".

(b) Marking Containers. When unpacking instructions are provided, shipping containers will be stenciled "CAUTION-THESE EQUIPMENT MAY BE SERIOUSLY DAMAGED UNLESS UNPACKING INSTRUCTIONS ARE CAREFULLY FOLLOWED. UNPACKING INSTRUCTIONS ARE LOCATED [insert location]." When practical, this marking will be applied adjacent to the identification marking on the side of the container.

(End of Text)

E-246-H019 INSPECTION AND ACCEPTANCE OF PROVISIONING TECHNICAL DOCUMENTATION (NAVSEA) (OCT 2018)

Item(s) under Engineering Services CLINs; 0001, 0003, 0101, 0103, 0201, 0203, 0301, 0303, 0401, 0403, 0501, 0503, 0601, 0603, 0701, 0703, 0801, 0803, 0901, and 0903 - The Government may accept, conditionally accept, or reject the Provisioning Technical Documentation (PTD) within sixty days after its delivery, or as specified on the applicable CDRL(s). A notice of conditional acceptance shall state any corrective action required by the Contractor. If PTD is rejected, the Contractor may be required, at the option of the Government, to correct any or all of the PTD. The Contractor shall at no additional cost to the Government make any necessary changes, modifications, or corrections to the PTD. The Government shall take action on the corrected PTD within the time limit specified above. Government action under this requirement shall not affect or limit any other rights it may have under this contract.

(End of text)

E-246-H022 INSPECTION AND TEST RECORDS (NAVSEA) (JAN 2019)

Inspection and test records shall, as a minimum, indicate the nature of the observations, number of observations made, and the number and type of deficiencies found. Data included in inspection and test records shall be complete and accurate, and shall be used for trend analysis and to assess corrective action and effectiveness. The data shall, on request, be identified and made available for on-site review by the Contracting Officer or designated Government representative.

(End of text)

E-246-H023 QUALITY REQUIREMENT FOR SOFTWARE DEVELOPMENT OR PRODUCTION (NAVSEA) (JAN 2019)

The contractor's software quality program shall be an integral part of the overall Quality Management System. Software quality program controls shall be applicable to all project software that is developed, maintained, or modified within the following categories:

- (a) All deliverable software
- (b) All deliverable software that is included as part of deliverable hardware or firmware.
- (c) Non deliverable software (commercially available or user-developed) used for development, fabrication, testing, or acceptance of deliverable software or hardware (includes automated fabrication, test, and inspection/acceptance equipment software and software design, test, and inspection tools).

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- (d) Commercially available, reusable, or Government software designated as part of a deliverable item.

(End of text)

F-247-H003 F.O.B. ORIGIN (NAVSEA) (OCT 2018)

All supplies hereunder shall be delivered free of expense to the Government in accordance with instructions specified in the clause hereof entitled "F.O.B. Origin" (FAR 52.247-29) at or near the Contractor's plant, Manassas, Prince William County, Virginia, for shipment at Government expense (normally on Government bill(s) of lading) in accordance with the delivery instructions specified herein. This paragraph is required pursuant to 52.247-29 (a)(1).

FMS item(s), if any, shall be shipped on a separate bill of lading and Interstate Commerce Act 49 U.S.C. Section 10721 and 13712 rates do not apply.

(End of text)

H-209-H004 ORGANIZATIONAL CONFLICT OF INTEREST (NAVSEA) (DEC 2018)

(a) "Organizational Conflict of Interest" means that because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the Government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage. "Person" as used herein includes Corporations, Partnerships, Joint Ventures, and other business enterprises.

(b) The Contractor warrants that to the best of its knowledge and belief, and except as otherwise set forth in the contract, the Contractor does not have any organizational conflict of interest(s) as defined in paragraph (a).

(c) It is recognized that the effort to be performed by the Contractor under this contract may create a potential organizational conflict of interest on the instant contract or on a future acquisition. In order to avoid this potential conflict of interest, and at the same time to avoid prejudicing the best interest of the Government, the right of the Contractor to participate in future procurement of equipment or services that are the subject of any work under this contract shall be limited as described below in accordance with the requirements of FAR 9.5.

(d) The contractor agrees that it shall not release, disclose, or use in any way that would permit or result in disclosure to any party outside the Government:

(1) any information provided to the Contractor by the Government during or as a result of performance of this contract. Such information includes, but is not limited to, information submitted to the Government on a confidential basis by other persons. Further, the prohibition against release of Government provided information extends to cover such information whether or not in its original form, e.g., where the information has been included in Contractor generated work or where it is discernible from materials incorporating or based upon such information. This prohibition shall not expire after a given period of time.

(2) any information generated or derived during or as a result of performance of this contract. This prohibition shall expire after a period of three years after completion of performance of this contract.

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(e) The prohibitions contained in subparagraphs (d)(1) and (d)(2) shall apply with equal force to any affiliate of the Contractor, any subcontractor, consultant, or employee of the Contractor, any joint venture involving the Contractor, any entity into or with which it may merge or affiliate, or any successor or assign of the Contractor. The terms of paragraph (g) of this Special Contract Requirement relating to notification shall apply to any release of information in contravention of this paragraph (d).

(f) The Contractor further agrees that, during the performance of this contract and for a period of three years after completion of performance of this contract, the Contractor, any affiliate of the Contractor, any subcontractor, consultant, or employee of the Contractor, any joint venture involving the Contractor, any entity into or with which it may subsequently merge or affiliate, or any other successor or assign of the Contractor, shall not furnish to the United States Government, either as a prime contractor or as a subcontractor, or as a consultant to a prime contractor or subcontractor, any system, component or services which is the subject of the work to be performed under this contract. This exclusion does not apply to any recompetition for those systems, components or services furnished pursuant to this contract. As provided in FAR 9.505-2, if the Government procures the system, component, or services on the basis of work statements growing out of the effort performed under this contract, from a source other than the contractor, subcontractor, affiliate, or assign of either, during the course of performance of this contract or before the three year period following completion of this contract has lapsed, the Contractor may, with the authorization of the cognizant Contracting Officer, participate in a subsequent procurement for the same system, component, or service. In other words, the Contractor may be authorized to compete for procurement(s) for systems, components or services subsequent to an intervening procurement.

(g) The Contractor agrees that, if after award, it discovers an actual or potential organizational conflict of interest, it shall make immediate and full disclosure in writing to the Contracting Officer. The notification shall include a description of the actual or potential organizational conflict of interest, a description of the action which the Contractor has taken or proposes to take to avoid, mitigate, or neutralize the conflict, and any other relevant information that would assist the Contracting Officer in making a determination on this matter. Notwithstanding this notification, the Government may terminate the contract for the convenience of the Government if determined to be in the best interest of the Government.

(h) Notwithstanding paragraph (g) above, if the Contractor was aware, or should have been aware, of an organizational conflict of interest prior to the award of this contract or becomes, or should become, aware of an organizational conflict of interest after award of this contract and does not make an immediate and full disclosure in writing to the Contracting Officer, the Government may terminate this contract for default.

(i) If the Contractor takes any action prohibited by this requirement or fails to take action required by this requirement, the Government may terminate this contract for default.

(j) The Contracting Officer's decision as to the existence or nonexistence of an actual or potential organizational conflict of interest shall be final.

(k) Nothing in this requirement is intended to prohibit or preclude the Contractor from marketing or selling to the United States Government its product lines in existence on the effective date of this

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contract; nor, shall this requirement preclude the Contractor from participating in any research and development or delivering any design development model or prototype of any such equipment. Additionally, sale of catalog or standard commercial items are exempt from this requirement.

(l) The Contractor shall promptly notify the Contracting Officer, in writing, if it has been tasked to evaluate or advise the Government concerning its own products or activities or those of a competitor in order to ensure proper safeguards exist to guarantee objectivity and to protect the Government's interest.

(m) The Contractor shall include this requirement in subcontracts of any tier which involve access to information or situations/conditions covered by the preceding paragraphs, substituting "subcontractor" for "contractor" where appropriate.

(n) The rights and remedies described herein shall not be exclusive and are in addition to other rights and remedies provided by law or elsewhere included in this contract.

(o) Compliance with this requirement is a material requirement of this contract.

(End of text)

H-246-H001 CALIBRATION SYSTEM REQUIREMENTS (NAVSEA) (JUN 2019)

(a) Definitions:

(1) Test, Measurement, and Diagnostic Equipment (TMDE). Includes all devices used to measure, calibrate, gage, test, inspect, diagnose, or otherwise examine materials, supplies, and equipment to quantitatively or qualitatively determine compliance with specifications and tolerances, engineering drawings, technical orders, technical manuals, or use requirements and instructions.

(2) Calibration Standard. A measuring instrument or artifact used as a reference to establish and maintain the accuracy of other measuring instruments or artifacts. Calibration standards may be used to calibrate other standards of lesser accuracy or to calibrate test and measurement equipment directly.

(3) Calibration. The comparison of a measurement system or device of unverified accuracy with a measurement system of known and greater accuracy to detect deviation of the unverified measurement system from required performance specifications (of the unverified measurement system or device) and to quantify all measured values to applicable units of the international system of units.

(4) Calibration Service Providers. Commercial calibration activities and other government agencies that provide calibration services to the Navy and Marine Corps as a major line of business.

(5) Commercial Service Providers. Suppliers of Navy test, measurement, and diagnostic equipment, including original equipment manufacturers, who may calibrate their own products but are not engaged in calibration as a major line of business, and other commercial laboratories that provide low volume, model specific, or unique parameter calibration services.

(6) Measurement Traceability. The property of a measurement result that can be related to a national or international measurement standard through a documented, unbroken chain of calibrations, each with a stated measurement uncertainty. Individual measurement results must be traced through an unbroken chain of calibrations to accepted references, such as: U.S. national standards such as, the U.S. Naval Observatory, ratio and consensus standards, natural physical constants, or the national standards of other countries correlated with U.S. national standards as held or directed by National Institute of Standards and Technology and Department of Defense (DoD) approved sources.

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(7) The End of Period Measurement Reliability. The probability that all the applicable measurement quantities of a test, measurement, and diagnostic equipment are within tolerance at the end of the calibration interval assigned to the given test, measurement, and diagnostic equipment.

(8) Calibration Interval. The periodicity between calibrations that is assigned to achieve Navy end of period measurement reliability objectives for test, measurement, and diagnostic equipment.

(9) The Probability of False Acceptance. The probability that a test used to verify that a measurement quantity is within specified tolerances results in an incorrect acceptance decision.

(10) The Probability of False Rejection. The probability that a test used to verify that a measurement quantity is within specified tolerances results in an incorrect rejection decision.

(11) The Test Uncertainty Ratio (TUR). The ratio of the difference between the upper and lower tolerance limits for a measurement quantity subject to calibration, to the difference between the upper and lower 95 percent uncertainty limits for the measurement process used for calibration.

(b) Test, measurement, and diagnostic equipment and automatic test systems are used to monitor and test systems, equipment, devices, and the environmental conditions under which these systems and personnel operate. The accuracy of Navy and Contractor test, measurement, and diagnostic equipment and automatic test systems used for quantitative and qualitative measurements are ensured through measurement traceability. The Contractor is required to ensure that all test, measurement and diagnostic equipment used for quantitative or qualitative measurements is maintained and calibrated in accordance with U.S. national standards ANSI/NCCL Z540.3 Requirements for the Calibration of Measuring and Test Equipment, dated 3 Aug 2006 or ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories (2nd Edition), dated 15 May 2005 or the national standards of other countries correlated with U.S. national standards held by the National Institute of Standards and Technology and designated as an approved source by the Department of the Navy METCAL Executive Agent.

(c) Calibration certification to Navy standard NAVSEA 04-4734B, Navy and Marine Corps Calibration Laboratory Audit/Certification Manual, 1 Dec 2006, is acceptable in place of ANSI/NCCL Z540.3 and ISO/IEC 17025 accreditations. ANSI/NCCL Z540.3 and ISO/IEC 17025 accreditations must be performed by an U.S. headquartered accreditation body that is a signatory of the Navy Calibration Cooperative Agreement. Calibration accreditation must include the parameters required to execute the calibration at appropriate ranges and tolerances. A calibration certificate meeting the requirements of ISO/IEC 17025 or ANSI/NCCL Z540.3 must be provided with the returned calibrated unit. The calibration certificate must be evaluated to confirm that the calibration was performed within the laboratory's accreditation scope. For activities certificated to NAVSEA 04-4734B, calibrations must be evaluated to confirm that the calibration was performed within the laboratory's NAVSEA certification, and calibration event records shall be provided to the Government upon request. Calibration intervals that deviate from NAVSEA OD 45845, Metrology Requirements List (METRL), shall reflect TMDE end of period reliability greater than 72%. TMDE reliability data shall be provided upon request. TURs shall be greater than 4:1 or ensure a probability of false acceptance of 2% or less and a probability of false rejections of 15% or less. Calibration procedures and methods used by the contractor shall be provided to the Government upon request.

(d) All calibrations supporting this contract shall meet the requirements of OPNAVINST 3960.16. If the Contractor subcontracts or outsources the initial or reoccurring calibration of test, measurement, and diagnostic equipment, the respective calibration laboratory must also meet the requirements of paragraphs (b) and (c).

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(e) Calibration service providers and commercial service providers, and all of their employees, who supply or calibrate Navy test, measurement, and diagnostic equipment, shall be certified or accredited to the requirements of the NAVSEA manual or the ISO or ANSI specifications cited in paragraphs (b) and (c).

(End of text)