

**Missile Defense Science & Technology Advanced Research (MSTAR) Broad
Agency Announcement (BAA) for the Missile Defense Agency (MDA)
Advanced Technology**



**MDA BAA Announcement HQ0147-17-MSTAR-BAA
Effective from October 1, 2016 – September 30, 2018**

**Advanced Research (DVR) Directorate
Missile Defense Agency
5222 Martin Road
Redstone Arsenal, AL 35898**

This Broad Agency Announcement (BAA) is intended to fulfill requirements for scientific study and experimentation directed toward advancing state-of-the-art technologies and/or increasing knowledge and understanding as a means to identify and develop robust innovative concepts, stimulate technology innovation, and exploit breakthroughs in science. This BAA identifies MDA research/exploratory development areas of interest and provides prospective offerors information on the preparation of white papers along with evaluation factors. THIS BAA DOES NOT FOCUS ON SPECIFIC SYSTEMS OR HARDWARE SOLUTIONS.

THIS ANNOUNCEMENT IS NOT FOR THE ACQUISITION OF TECHNICAL, ENGINEERING, OR OTHER TYPES OF SUPPORT SERVICES.

DISTRIBUTION STATEMENT A

Approved for Public Release; distribution is unlimited 16-MDA-8767 (19 Jul 16)

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SECTION I: INTRODUCTION

The Missile Defense Agency (MDA), an arm of the United States (U.S.) Department of Defense (DOD), mission is to develop, test, and field an integrated, layered, Ballistic Missile Defense System (BMDS) to defend the U.S., its deployed forces, allies, and friends against all ranges of enemy ballistic missiles in all phases of flight. The BMDS includes operational elements for sensing, monitoring, and intercepting ballistic missiles during all three phases of flight; boost, mid-course, and terminal. BMDS elements include a network of space, ground, and sea based sensors for detecting and tracking threat missiles; interceptor missiles launched from silos, trucks and ships; and tools for command and control. MDA focuses efforts toward making the BMDS more robust against the widening threats, and increasing capabilities to counter a broad range of missiles, warheads and trajectories. The BMDS must have the ability to detect, track, identify and kill ballistic missiles.

This publication constitutes a Broad Agency Announcement (BAA) issued under the provisions of Federal Acquisition Regulation (FAR) 6.102(d)(2), which provides for the competitive selection of research proposals. Contracts based on responses to this BAA are considered to be the result of full and open competition and in full compliance with the provisions of Public Law 98-369 sec. 2701, "The Competition in Contracting Act of 1984." Any contracts awarded from this BAA must comply with the International Traffic in Arms Regulation (ITAR) and the Export Administration Regulation (EAR).

The MDA will not issue paper copies of this announcement. MDA reserves the right to select for award and fund all, some, or none of the white papers in response to this announcement. The cost of preparing white papers in response to this BAA is not considered an allowable direct charge to any resulting contract or to any other contract. However, it may be an allowable expense to the normal bid and proposal indirect costs as specified in FAR 31.205-18. It is the policy of MDA to handle all white papers and proposals submitted under this BAA as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

This announcement replaces HQ0147-15-MSTAR-BAA. This BAA is intended for proposals related to advanced research technology development and that part of development not related to the development of a specific system or hardware procurement. Work funded under this BAA may include applied research and advanced technology development that is not related to the development of a specific system or hardware procurement. This BAA is used to fulfill the MDA's requirement for scientific study and experimentation directed toward advancing the state-of-the-art or increasing knowledge or understanding rather than focusing on a specific system or hardware solution.

SECTION II: SUMMARY INFORMATION

A. Agency Name: Missile Defense Agency, Advanced Research (DVR) Directorate

B. Program Name: Advanced Research

C. Broad Agency Announcement Title: Missile Defense Science & Technology Advanced Research (MSTAR)

D. Broad Agency Announcement Number: HQ0147-17-MSTAR-BAA

E. North American Industry Classification System (NAICS) Code/Title: 541712 - Research and Development in the Physical, Engineering, and Life Sciences

F. Response Date:

This announcement shall remain open until September 30, 2018 unless superseded, extended, canceled or replaced by a successor BAA, whichever first occurs. White papers maybe submitted at any time during the BAA open period (October 1, 2016 through September 30, 2018). MDA may issue Request for Proposals (RFP) up to six months following the closing date for this BAA announcement only for white papers submitted during the BAA open period.

G. Anticipated Awards:

Multiple awards are anticipated under this BAA. MDA is under no obligation to make any awards. The number of awards made under this BAA will depend on the quality of the white papers received and the availability of funds.

H. Total Funding Availability for Award(s):

For planning purposes, firm-fixed-price or cost reimbursement type contracts, cooperative agreements or grants are anticipated to be awarded for these efforts unless otherwise identified. We anticipate each MSTAR contract's funding at a maximum of \$600,000. Established funding ceilings are \$200,000 a year consisting of one year base period of performance with the potential for up to two (2) severable option years funded at a maximum of \$200,000 each (for a total of \$600,000). Inclusion of options in any contract is at the discretion of the government. The government is also not obligated to exercise any option period included in an awarded contract.

Funding of research within MDA areas of interest will be determined by funding constraints and priorities set during each fiscal year budget cycle between June and September. Therefore, offerors are encouraged to submit white papers not-later-than February each fiscal year to increase the chances of being aligned with the budget cycle. Recommended timeline for selections in the MDA budget cycle is:

February – submit papers

March through May – Review process

June – Source Selection Authority determination and notification of selections

November – Contract award

I. Types of Instruments that may be Awarded:

Awards as a result of this announcement will take the form of a contract, although the government reserves the right to use other types of contractual instruments if deemed more appropriate for the proposed work. Any contract awards resulting from this BAA will incorporate the appropriate FAR, DFARS and local MDA clauses.

J. Agency Contacts:

Submit all communications to the following points of contact:

- | | | |
|-------------------------------------|----------------|---------------------------------|
| 1) Contract Specialist | Mitch Shelton | Email: Mitchell.Shelton@mda.mil |
| 2) Contract Specialist | Latoya Gilbert | Email: latoya.gilbert@mda.mil |
| 3) Contracting Officer | Willis Brice | Email: willis.brice@mda.mil |
| 4) BAA Program Administration Group | | Email: advancedresearch@mda.mil |

NOTE: All communications should be UNCLASSIFIED and submitted via email to the all of the POCs listed above. DO NOT EMAIL ANY CLASSIFIED QUESTIONS and request assistance if one is required. The above POCs will contact the entity and arrange for any CLASSIFIED questions to be asked through a secure method of communication.

K. Other Information:

Any research conducted on or resulting from contracts awarded from this BAA must comply with United States Laws and regulations on “Export Control”, including the International Traffic in Arms Regulation and the Export Administration Regulation. MDA approval is required prior to any non-U.S. citizen performing on a MSTAR BAA contract.

SECTION III: RESEARCH OPPORTUNITY DESCRIPTION

A. Program Overview:

MDA is charged with developing and fielding an integrated, layered BMDS to protect the U.S. and its allies from a ballistic missile attack. The MDA Ballistic Missile Defense layered approach includes sensors, kinetic energy systems, directed energy systems, battle management, and command control elements that will engage threat ballistic missiles at all ranges and throughout its trajectory. MDA efforts are focused on making the BMDS more robust against the widening threats, and increasing capabilities to handle a broad range of unknown missiles, warheads, trajectories, and adversaries. MDA must have the ability to detect, track, identify and destroy the ballistic missile.

Technical advancement is essential for continuous improvement in the BMDS. MDA advances technology that enables near-term, evolutionary growth in current systems while adding revolutionary systems to substantially improve the BMDS in the far term. The MDA Advanced Technology Program Executive Office (MDA/DV) is responsible for developing advanced capabilities for the BMDS. This includes planning and executing a broad range of enabling technologies and advanced technology development efforts, developing the technology base for advanced applications, assessing emerging technologies, innovative concepts, and leading the effort to develop advanced algorithms for improving BMDS capability.

MDA/DV has instituted the MSTAR BAA Program to identify and develop innovative concepts, stimulate technology innovation, and exploit breakthroughs in science to offer robust technology improvements to all elements of the BMDS. The MSTAR BAA is a competitive science and technology research program, which consists of forefront advanced research and development technology, concepts, and approaches acquired through scientific and technological investigation. Potential offerors are urged to learn more about the Agency at the MDA website, <http://www.mda.mil>.

B. Research Topics:

MDA/DV is interested in receiving white papers in the topic areas listed below:

(1) Radar and Communication Systems: include but are not limited to: integrated system concepts; threat signature simulation and measuring techniques; transmit/receive modules; signal processing; data visualization; data compression; operation in stressing environments; and, passive radio-frequency systems. Also included are technologies that enhance target detection, tracking, and discrimination reliability; and, systems for enhanced communication between various elements of the BMDS, including high bandwidth options.

(2) Electro-Optical/Infrared Sensor Systems: include but are not limited to: telescopes; read-out electronics; signal processing; and, multi-sensor fusion. There is particular interest in infrared focal plane arrays with materials and detector architectures having increased sensitivity, lower noise, higher quantum efficiency, and greater radiation tolerance. Concepts are also sought for manufacturing improvements (improved yield, process simplification, reduced cost) and performance improvements (uniformity, sensitivity, operability, and reduced cross-talk) of large format, multicolor infrared, focal plane arrays.

(3) Directed Energy Systems: include but are not limited to: compact, lightweight, and efficient high energy lasers; associated subsystems; and, related directed energy system technologies. There is specific interest in diode-laser-pumped fiber, solid state, gas, and liquid phase lasers; and, improved high power, high efficiency, narrow linewidth, and line stable diode laser arrays. Subsystem interests include compact, lightweight power supplies; thermal control systems; optical beam control and stabilization technologies; large, lightweight high-altitude airborne and space-qualified optical telescopes; beam control components; optical beam combining and phased array concepts; bidirectional high power fiber coupling components; fast, high power electronic beam steering concepts; and, robust, high power optical coatings. Analytical concepts of interest include improved wave-optics-based scaling laws for multiple/obscured apertures.

(4) Computer Science, Signal and Data Processing: include but are not limited to: digital electronics and signal processing; distributed computing include optimization of data flow between nodes on limited bandwidth links; field programmable gate array (FPGA) and graphical processing unit (GPU) exploitation; machine implementation of algorithms; decision systems supporting firing doctrine, engagement optimization and assessment of engagement success; data and sensor fusion; pattern recognition; computer vision; threat complex identification, characterization, and flight prediction; discrimination; algorithms; technologies for employing “big data” in the defense against missile threats; encryption; and security.

(5) Mathematics, Probability and Decision Theory: include but are not limited to: sensor resource management; target characterization and discrimination; decision systems supporting firing (shot) doctrine, battle engagement tactics and optimization and assessment of engagement success (kill assessment); target detection in low Signal to Noise Ratio environments; navigation to target kill in a dynamic environment; system and system-of-systems performance measures; near real-time intelligence processing and decision making; and order-of-battle acquisition (long lead) planning.

(6) Materials and Processing: include but are not limited to: high temperature composites; advanced resin systems; beryllium replacement; thermal management and insulation; domestic fibers; additive manufacturing; near-net shape manufacturing; b-basis property database; phase-changing materials; meta-materials; nanomaterials; ceramic matrix composites; non-destructive/invasive inspection techniques; densification optimization;

programmable magnetics; joining techniques; electromagnetic environmental effects mitigation; and, epitaxy.

(7) Phenomenology: include but are not limited to: the study of phenomenology associated with threat missile and rocket plume infrared, optical and radar signatures; natural and man-made (including nuclear) radiation, Electrical Optical/Infrared and Radio Frequency (EO/IR and RF) environments and real-time environment characterization; post-intercept debris modeling; and wake and reentry physics of high-velocity targets.

(8) Interceptor and Space System: including but not limited to: advanced power systems; solid and liquid propulsion technologies; green propellants; high temperature nozzles; navigation technology; secure avionics; miniaturized inertial measurement unit technology; control algorithms; communication systems; composite structures; hot structures; deployment and restraint technology; safety infrastructure and sensors; infrared windows; advanced micro-processors; lightning strike mitigation; thermal protection

(9) Modeling and Simulation: include but are not limited to: innovative methods for software emulation, signal injection, and distributed testing across multiple systems and platforms; scalable and high-fidelity methods for system and/or signal emulation suitable for “real-time” hardware and/or software simulation; research and development of tools for accurately modeling missile system behavior; environmental phenomenology; methods for incorporating human factors; novel methods of analysis for large sets of scenario parameters; methods for reducing the computational expense of large parametric studies.

In order to facilitate meaningful information exchanges that could contain unclassified technical data disclosing military critical technology with military or space application that is under the control or in the possession of the U.S. DoD, please submit via email an approved DD Form 2345, Military Critical Technical Data Agreement (Reference <http://www.dlis.dla.mil/jcp/> for information regarding this program and form) to Ms. Lori Latham, MDA/DVR. Email is lori.latham.CTR@mda.mil; phone 256-450-4347. If your university/college does not have a certified DD 2345, complete, sign and submit a DD Form 2345 as noted on the form and website. MDA does not certify the DD Form 2345.

SECTION IV: AWARD INFORMATION

The funded amount and period of performance of each white paper selected for award may vary depending on the research area and the technical approach to be pursued by the offer selected. In general, awards are anticipated to consist of a one year (1) base period of performance with the potential for up to two (2) severable option periods for subsequent performance.

Inclusion of options in any contract is at the discretion of the Government. The Government is also not obligated to exercise any options.

Awards occur anytime during and after the one (1) year BAA period based on the receipt of the white paper. The Government reserves the right to select for award any, all, part, or none of the white papers received in response to this announcement. The Government intends to evaluate and recommend awards without discussions based upon its evaluation of white papers; however, the Government reserves the right to hold discussions if deemed necessary. Discussions with the points of contact shall not constitute a commitment by the Government to subsequently fund or award any proposed effort. Only Contracting Officers are legally authorized to commit the Government.

All topics require the lead Principal Investigator (PI) and/or Program Manager (PM) of entities submitting a proposal under this program hold U.S. citizenship. Approval is required from MDA for any non-U.S. citizen to perform on MDA research contracts.

The BAA topics may cover export controlled technologies. Research in these areas is limited to “U.S. persons” as defined in the International Traffic in Arms Regulations -22 CFR § 120.1 et seq.

Cost sharing is not expected and will not be used as a factor during the merit review of any white paper hereunder. However, the Government may consider voluntary cost sharing if proposed.

SECTION V: ELEGIBILITY INFORMATION

Eligible organizations for contract award for research in those areas covered in this BAA are domestic accredited colleges, universities or institutions of higher learning registered by the U.S. Department of Education may submit proposals. Historically Black Colleges and Universities (HBCUs) and Minority Institutions (MIs) are encouraged to submit proposals and join others in submitting proposals. No portion of this BAA will be set aside for HBCU and MI participation, due to the impracticality of reserving discrete or severable items of this research.

Federal educational organizations such as the U.S. military academies must use a different application process; please contact the POCs listed below for details regarding Federal educational organizations. Federally Funded Research and Development Centers (FFRDCs) or University Advanced Research Centers (UARCs) are eligible as a subcontractor as long as they are permitted under the sponsoring agreement or charter between the Government and the specific FFRDC or UARC.

If a white paper is based on a subcontract or teaming arrangement, the college, university or educational institution submitting the proposal must lead the effort and perform more than 50 percent of the effort by cost. Teaming partnerships are encouraged and may submit white papers in any and all areas. However, offerors must be willing to cooperate and exchange software, data, and other information in an integrated program with other contractors, as well as with system integrators, selected by MDA.

SECTION VI: APPLICATION AND SUBMISSION INFORMATION

A. Submission Process:

This BAA will utilize a two-step process. Step one will be the evaluation of the offeror's white paper submission. This step will preclude unwarranted efforts on the part of an offeror whose proposed white paper is found to be of no interest to the MDA. Step two will be a request to submit a formal proposal for selected white papers that are found to be consistent with the intent of the BAA and which are of interest to the MDA.

Offerors are reminded that this BAA is for the acquisition of advanced technology for scientific study and experimentation directed toward advancing state-of-the-art technologies, increasing knowledge or understanding rather than focusing on a specific system or hardware solution. White papers related to the development of a specific system will not be accepted since they are non-responsive.

White papers shall be accepted starting from the date of publication of announcement and continue to be accepted the entire period of time that the BAA is open, from October 1, 2016 through September 30, 2018. All white papers under this BAA should be UNCLASSIFIED.

MDA intends to use email for all correspondence concerning HQ0147-17-MSTAR-BAA. Electronic (email) submissions shall be sent to the attention of each of the following:

- 1) Contract Specialist, Mitchell Shelton Email: Mtichell.Shelton@mda.mil
- 2) Contract Specialist, Latoya Gilbert Email: latoya.gilbert@mda.mil
- 3) Contracting Officer, Willis Brice Email: willis.brice@mda.mil
- 4) BAA Program Administration Group Email: advancedresearch@mda.mil

The subject line of the email shall read "HQ0147-17-MSTAR-BAA White Paper Submission." The white paper must be a Microsoft Word compatible or PDF format attachment to the email. There is an email size limit of 10MB per email.

Unclassified white papers are requested. In the rare situation that a white paper must be CLASSIFIED contact the MDA POCs listed above.

If you are interested in this opportunity, please respond to MDA with the following:

(1) A white paper (no more than ten pages), which succinctly illustrates the proposed technical approach, as well as its rationale and objectives, methodology, expected results, and potential contribution to the MDA program.

(2) White paper Rough Order of Magnitude (ROM).

- (3) A suggested program plan.
- (4) A description of the offeror's technical capabilities, relevant experience, and facilities.

Note: DO NOT SEND –

- Hardcopies of white papers (including facsimiles) as only electronic submissions will be accepted and reviewed.
- ZIP files.
- Password protected files.

B. Requirements of White Papers

The white paper shall address the entire suggested period of performance, including all options or phases proposed. The Executive Summary and Program Description as described below, shall not exceed the ten page limit and anything beyond that limit will not be evaluated. The document shall have one inch margins on all sides and use 12 point font.

Offerors may mark their white papers with the restrictive language stated in FAR 15.609(a) and (b). It is the offeror's responsibility to clearly define to the Government what is considered restrictive data in accordance with DFARS 252.227-7025 and other appropriate restrictive markings in accordance with the DFARS.

(1) Title Page: *(not included in page count)*

- i. Labeled with "WHITE PAPER" and include BAA Number HQ0147-17-MSTAR-BAA.
- ii. Proposed Title.
- iii. Name, title, telephone, fax numbers, and email address of offeror's technical point of contact.
- iv. Name, title, telephone number, email address, official mailing address, and signature of the authorized contracting representative.
- v. Date offer is submitted.
- vi. Abstract paragraph not to exceed 250 words.

(2) Executive Summary: Describe the proposed program, objectives, and approach. A description of the innovation and benefits to MDA of the proposed approach and relationship to previous efforts should be discussed.

(3) Program Description: Describe the techniques, methods, materials, or ideas that will be addressed in this white paper, their innovation, and to what degree they advance the state-of-the-art technologies. Also, describe any potential for commercial application and the benefits expected to accrue from commercialization. The effort shall be easily decipherable and clearly severable between base periods and subsequent option periods.

(4) Program Plan and Milestone Chart: *(not included in page count)* Describe in detail the management plan, technical objectives, and how the plan will be executed. Milestones should indicate when specific objectives are expected to be met in the overall schedule of the program and should identify the specific accomplishments necessary to proceed on to the next task. Describe in detail the critical path of activities for the entire research project and define areas of risk with the risk mitigation plan.

(5) Description of Relevant Prior Work: *(not included in page count)* Include a list of both in-house efforts funded by internal research funds and contracts funded by others. For each such effort, provide a list that includes the title of effort, contract number, funding organization (customer), and a brief summary of results. The PI, PM, and team members resumes should be included as a part of the submission for this area.

(6) Rough Order of Magnitude (ROM) Cost for White Papers: *(not included in page count)*

Furnish Tables 1 and 2 for the entire performance period with white paper submission. Additional information, such as breakout by task, is acceptable but not required.

TABLE 1 White paper cost element summary including each period of performance.

| | Base Period | Option Period 1 | Option Period 2 | Totals |
|-------------------------------------|-------------|-----------------|-----------------|--------|
| Total Direct Labor (TDL): | | | | |
| Total Direct Materials Costs (TDM): | | | | |
| Total Other Direct Costs (TODC): | | | | |
| Total Indirect Costs (TODC): | | | | |
| Fee or Profit | | | | |
| TOTAL ESTIMATED PRICE: | | | | |

TABLE 2 Subcontract/inter-organizational transfers & consultants price summary.

| SUBCONTRACTOR NAME | SUBCONTRACT TASKS | ESTIMATED PRICE |
|--------------------|-------------------|-----------------|
| | | |
| TOTALS | | |

The cost of preparing white papers in response to this BAA is not considered an allowable direct charge to any resulting contract or to any other contract. However, it may be an allowable expense to the normal bid and proposal indirect costs as specified in FAR 31.205-18.

SECTION VII: EVALAUTION INFORMATION

A. Evaluation Process:

The evaluation team will independently evaluate each white paper submitted and provide written recommendations for award or non-award to the BAA Selection Official (BSO) based on a peer or scientific review process in accordance with FAR 35.016(d) and (e). Individual white paper evaluations will be based on acceptability or unacceptability without regard to other white papers and proposals submitted under this BAA. White papers submitted will be evaluated as they are received.

B. Evaluation Criteria:

The evaluation factors of the whole paper include Technical Merits, Capabilities, Program Management, and Relevance to MDA as described below. These four factors are significantly more important than cost or price. Technical Merit is equally as important as Capabilities and Program Management combined. Capabilities are slightly more important than Program Management.

(1) Technical Merit. Does the white paper represent quality research by adequately addressing objectives, scientific methods or engineering practices, expected results and validation of results? Does the proposed research have applicability to the existing or emerging BMDS? Does the proposed research have a clear potential to mitigate critical performance gaps or greatly enhance current capabilities or the affordability of the system? Does the proposed research extend beyond state-of-the-art or represent an innovative game changing technology?

(2) Capabilities. Does the paper adequately justify the principal investigator's and/or key personnel's qualifications, capabilities, and experience critical to achieving the research objectives? Does the offering institution provide adequate techniques and facilities to complete the proposed task? Does the proposal team include individuals, groups or institutions recognized as leader(s) in their field with a strong record of accomplishment in the area of proposed research (e.g. patents, papers, citations, products) or has a one-of-a-kind capability?

(3) Program Management. Does the paper provide a set of clearly defined task and objectives; a logical schedule with appropriate flow between activities; and a list of products? Does the rough order of magnitude cost appear reasonable? Does the paper demonstrate exceptional program management capabilities; e.g. shows the critical path of activities for the entire research project (base plus options if applicable); provide resource loaded milestone

schedules (base plus options if applicable); define areas of risk and risk mitigation strategies; and a list of products with associated metrics?

(4) Relevance to MDA, priority, and available funding. These criteria will provide the final basis for award selections by the BSO and will be determined directly by the BSO. The ROM Cost will be used to determine if there are sufficient funds available for the proposed effort.

C. Evaluation Panel:

White papers submitted under this BAA will be protected from unauthorized disclosure. The cognizant Program Manager and other Government scientific, engineering and technical experts will perform the evaluations and selections of the white papers under this BAA. Restrictive notices notwithstanding, one or more support contractors may be utilized as subject-matter-expert technical consultants.

The Government may use selected FFRDC, UARC, non-government contracted support, and other non-governmental personnel to assist in the evaluation and administrative handling of white papers and proposals submitted in response to this announcement. These persons are bound by appropriate non-disclosure agreements and organizational conflict of interest statements to protect proprietary and source selection information.

Submission of white papers under this BAA constitutes the offeror's acknowledgment and consent to the use of non-government support contractors during the evaluation process.

SECTION VIII: AWARD SELECTION

The BSO will make selections for awards or non-awards based on the evaluation criteria noted above and MDA funding and technology priorities. The BSO will forward a list of award or non-award selections to the MDA/DV Contracts office for further action. The MDA/DV Contracts office will then notify selected and non-selected offerors of the evaluation decision and request formal proposals from the selected offerors. However, any notification received from MDA that indicates that the offeror's white paper has been recommended for award does not ultimately guarantee that the offeror will be awarded a subsequent contract.

Evaluations may take up to six months from receipt of white paper to notice of selection or non-selection for award. If you are selected for award, the MDA/DV Contracts office will request a full technical volume and detailed cost proposal in a formal Request for Proposal (RFP). Specific proposal instructions will be included in the RFP package. **DO NOT SUBMIT THE TECHNICAL AND COST PROPOSALS UNTIL YOU RECEIVE A REQUEST FROM THE CONTRACTING OFFICER FOR THIS INFORMATION.**

REFERENCES:

International Traffic in Arms Regulations (ITAR) (Code of Federal Regulations Title 22 Chapter 1, Subchapter M). See U.S. Department of State Directorate of Defense Trade Controls website at http://www.pmdtc.state.gov/regulations_laws/itar.html

Export Administration Regulations (EAR) (Code of Federal Regulations Title 15, Chapter VII, Subchapter C). See U.S. Department of Commerce Bureau of Industry and Security website at <https://www.bis.doc.gov/index.php/regulations/export-administration-regulations-ear>

Department of Defense Directive 5230.24. See DTIC Online website at www.dtic.mil/whs/directives/corres/pdf/523024p.pdf

U.S. Department of Defense Missile Defense Agency. www.mda.mil

Research Category Definitions: DoD Financial Management Regulation (DoD 7000.14-R, volume 2B, chapter 5 (Uniform Budget and Fiscal Accounting Classification): www.dtic.mil/descriptivesum/budget_activities.pdf

Military Critical Technical Data Agreement. Form: www.dtic.mil/whs/directives/forms/eforms/dd2345.pdf