



**NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION
OFFICE-WIDE BROAD AGENCY ANNOUNCEMENT
(BAA)**

N00421-18-S-0001

June 15, 2018

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I. OVERVIEW INFORMATION

This publication constitutes a Broad Agency Announcement (BAA) for awards by the Naval Air Warfare Center Aircraft Division (NAWCAD) Aircraft Support Contracts Division, AIR-2.5.1 (or otherwise approved by AIR-2.5.1) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2) and 35.016, 2 CFR § 200.203, and Other Transaction (OT) Guide, Jan 2017. A formal Request for Proposals (RFP), solicitation, and/or additional information regarding this announcement will not be issued.

NAWCAD will not issue paper copies of this announcement. The NAWCAD reserves the right to fund all, some, or none of the proposals received under this BAA. NAWCAD provides no funding for direct reimbursement of proposal development costs. Technical and cost proposals (or any other material) submitted in response to this BAA will not be returned. It is the policy of NAWCAD to treat all proposals submitted under this BAA as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

This BAA is intended for proposals related to basic and applied research, and that part of development not related to the development of a specific system or hardware procurement. This Announcement is not for the acquisition of technical, engineering, and other types of support services.

A. Required Overview Content

1. Federal Awarding Agency Name

Naval Air Warfare Center Aircraft Division (NAWCAD)
21983 Bundy Road
Building 441
Patuxent River, MD 20670

2. Funding Opportunity Title

Projects in Support of Naval Aviation: Basic Research and Applied Research

3. Announcement Type

Initial Announcement

4. Funding Opportunity Number

N00421-18-S-0001

5. Catalog of Federal Domestic Assistance (CFDA) Numbers

[12.300](#)

Title: Department of Defense (DOD), Department of the Navy, Office of Chief of Naval Research, Basic and Applied Scientific Research

6. Key Dates (See also Section D.4)

This announcement will remain open for - one (1) year from the date of publication, or until replaced by a successor BAA. Proposals may be submitted at any time during this period.

7. North American Industry Classification System (NAICS) code

The NAICS code under this announcement is:

- 541713, Research and Development in Nanotechnology
- 541714, Research and Development in Biotechnology (except Nanobiotechnology)
- 541715, Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)

II. FULL TEXT OF ANNOUNCEMENT

A. Program Description

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

The Naval Air Warfare Center Aircraft Division (NAWCAD) is interested in receiving proposals for Science and Technology (S&T) Projects which offer potential for advancement and improvement of NAWCAD operations. Readers should note that this is an announcement to declare NAWCAD's broad role in competitive funding of meritorious research across a spectrum of science and engineering disciplines.

NAWCAD has identified the research needed to address the challenges, problems, and future technology needs of the Warfighter. Research Opportunity Areas of Interest:

- **Systems Engineering.** Areas of research include but are not limited to the following: systems safety engineering, air platform development and integration, system of systems architectures, aviation/ship integration, combat survivability, reliability and maintainability engineering, anti-tamper engineering, electromagnetic environmental effects engineering, and manufacturing.
- **Cost Analysis.** Areas of research include but are not limited to the following: cost modeling, cost estimating, database development and management, and the development of cost, schedule, and technical algorithms and tools.
- **Air Vehicles.** Areas of research include but are not limited to the following: reliability engineering, aeromechanics & flight controls, structural mechanics, life management of airframes, material science, airframe materials, corrosion prevention & control, thermal management, fire & ice protection, subsystem function, design, integration and maintainability (mechanical systems, hydraulics, pneumatics and landing gear), and fuel containment/aerial refueling.
- **Power and Propulsion (P&P).** Areas of research include but are not limited to the following: reliability engineering, fuel systems, controls and diagnostics, air-breathing engines, fuels & lubricants, electrical power generation, auxiliary power, low observable signature technologies, propulsion life management, and mechanical systems.
- **Avionics.** Areas of research include but are not limited to the following: flight information systems, electronic warfare systems, radio frequency engineering, signal processing, electro-optic engineering, acoustic engineering, software development & quality assurance, mission computer technology, target recognition and communication networks.
- **Human Systems.** Areas of research include but are not limited to the following:

cockpit controls and displays, ergonomics, anthropomorphic measurement, human performance assessment & modeling, flight gear, protective equipment, survival equipment, chemical-biological gear, fire suppression, virtual environments, and human factor engineering (social, behavioral, cultural) and reliability.

- **Weapons & Energetics.** Areas of research include but are not limited to the following: energetic material & systems, weapon airframe engineering, weapon guidance & control, and weapon systems engineering.
- **Support Equipment.** Areas of research include but are not limited to the following: launch and recovery equipment, electro-magnetics, high-energy generation and control, environmental sensing, prognostics & health monitoring, automatic testing of hardware and software, displays, information systems & intelligent agents, advanced computer & data processing applications.
- **Warfare Analysis.** Areas of research include but are not limited to the following: operational suitability, maritime effectiveness, aircraft concepts, weapon concepts, decision analysis, vulnerability, and capability based assessment.
- **Research and Intelligence.** Areas of research include but are not limited to the following: image & signal processing, unmanned systems, optics research & fabrication and chemical detection.
- **Test and Evaluation Engineering.** Areas of research include but are not limited to the following: telemetry, communications, data links & data acquisition, mission system testing, target engineering, airborne threat simulation, integrated battle-space simulation & test, hardware-in-the-loop testing, flight instrumentation, ground radar analysis, test article configuration, navigation, and identification.
- **Simulation and Modeling.** Areas of research include but are not limited to the following: weapon training systems, parallel computing, virtual environments, tactical decision-making, training technologies, verification, and validation.

NAWCAD may also consider submissions outside these areas if the white paper/proposal involves the development of novel-based capabilities with potential to enhance naval capabilities.

Students, postdoctoral researchers, faculty, and NAWCAD personnel working on projects may pursue this work in government and/or educational institution facilities, depending on the capability and availability of each other's facilities, equipment and material to support these projects.

B. Federal Award Information

1. Awards

Multiple awards are anticipated. The level of funding for individual awards made under this solicitation have not been predetermined and will depend on the quality of the white papers received and the availability of funds. Awards will be made to proposers whose white papers are determined to be the most advantageous to the Government, all factors considered, including the potential contributions of the proposed work, overall funding strategy, and availability of funding.

The Government reserves the right to:

- select for negotiation all, some, one or none of the proposals received in response to this solicitation;
- make awards without discussions with proposers;
- conduct discussions with proposers if it is later determined to be necessary;
- segregate portions of the resulting awards into pre-priced options
- accept proposals in their entirety or to select only portions of proposals for award;
- fund proposals in increments and/or with options for continued work at the end of one or more phases;
- request additional documentation once the award instrument has been determined (e.g., representations and certifications); and
- remove proposers from award consideration should the parties fail to reach agreement on award terms within a reasonable time or the proposer fails to provide requested additional information in a timely manner

Proposals selected for award negotiation may result in a procurement contract, grant, cooperative agreement or Other Transaction depending upon the nature of the work proposed, the required degree of interaction between parties, and other factors.

In all cases, the Government contracting officer shall have sole discretion to select award instrument type, regardless of instrument type proposed, and to negotiate all instrument terms and conditions with selectees. NAWCAD will apply publication or other restrictions, as necessary, if it determines that the research resulting from the proposed effort will present a high likelihood of disclosing performance characteristics of military systems or manufacturing technologies that are unique and critical to defense. Any award resulting from such a determination will include a requirement for NAWCAD permission before publishing any information or results on the program. For more information on publication restrictions, see the section below on Contracted Fundamental Research.

2. Contracted Fundamental Research

With regard to any restrictions on the conduct or outcome of work funded under this BAA, NAWCAD will follow the guidance on and definition of “contracted fundamental research” as provided in the Under Secretary of Defense (Acquisition, Technology and Logistics) Memorandum of 24 May 2010.

As defined therein the definition of “contracted fundamental research,” in a DoD contractual context, includes research performed under grants and contracts that are (a) funded by Research, Development, Test and Evaluation Budget Activity 1 (Basic

Research), whether performed by universities or industry or (b) funded by Budget Activity 2 (Applied Research) and performed on campus at a university. The research shall not be considered fundamental in those rare and exceptional circumstances where the applied research effort presents a high likelihood of disclosing performance characteristics of military systems or manufacturing technologies that are unique and critical to defense, and where agreement on restrictions have been recorded in the contract or grant.

Pursuant to DoD policy, research performed under grants and contracts that are a) funded by Budget Activity 2 (Applied Research) and NOT performed on-campus at a university or b) funded by Budget Activity 3 (Advanced Technology Development) does not meet the definition of “contracted fundamental research.” In conformance with the USD (AT&L) guidance and National Security Decision Directive 189, NAWCAD will place no restriction on the conduct or reporting of unclassified “contracted fundamental research,” except as otherwise required by statute, regulation or executive order. For certain research projects, it may be possible that although the research being performed by the prime contractor is restricted research, a subcontractor may be conducting “contracted fundamental research.” In those cases, it is the prime contractor’s responsibility in the proposal to identify and describe the subcontracted unclassified research and include a statement confirming that the work has been scoped, negotiated, and determined to be fundamental research according to the prime contractor and research performer.

Normally, fundamental research is awarded under grants with universities and under contracts with industry. Non-fundamental research is normally awarded under contracts and may require restrictions during the conduct of the research and DoD pre-publication review of such research results due to subject matter sensitivity. As of the date of publication of this BAA, the Government cannot identify whether the work under this BAA may be considered fundamental research and may award both fundamental and non-fundamental research.

Proposers should indicate in their proposal whether they believe the scope of the research included in their proposal is fundamental or not. While proposers should clearly explain the intended results of their research, the Government shall have sole discretion to select award instrument type and to negotiate all instrument terms and conditions with selectees. Appropriate clauses will be included in resultant awards for non-fundamental research to prescribe publication requirements and other restrictions as appropriate.

FAR Part 35 restricts the use of Broad Agency Announcements (BAAs), such as this, to the acquisition of basic and applied research and that portion of advanced technology development not related to the development of a specific system or hardware procurement. Contracts and grants and other assistance agreements made under BAAs are for scientific study and experimentation directed towards advancing the state of the art and increasing knowledge or understanding.

3. Funded Amount and Period of Performance

The funded amount and period of performance of each proposal selected for award may

vary depending on the research area and the technical approach to be pursued by the proposers selected.

4. Instrument Type(s) -

Awards may take the form of contracts, grants, cooperative agreements, technology investment agreements, and other transaction agreements, as appropriate.

The following provides brief descriptions of potential instrument types:

a. Procurement Contract: A legal instrument, consistent with 31 U.S.C. 6303, which reflects a relationship between the Federal Government and a state government, a local government, or other entity/contractor when the principal purpose of the instrument is to acquire property or services for the direct benefit or use of the Federal Government.

b. Assistance Instruments.

i. Grant: A legal instrument consistent with 31 U.S.C. 6304, is used to enter into a relationship:

- The principal purpose of which is to transfer a thing of value to the recipient to carry out a public purpose of support or stimulation authorized by a law of the United States, rather than to acquire property or services for the Federal Government's direct benefit or use.
- In which substantial involvement is not expected between the Federal Government and the recipient when carrying out the activity contemplated by the grant.
- No fee or profit is allowed.

ii. Cooperative Agreement: A legal instrument which, consistent with 31 U.S.C 6305, is used to enter into the same kind of relationship as a grant, except that substantial involvement is expected between the Federal Government and the recipient when carrying out the activity contemplated by the cooperative agreement. No fee or profit is allowed.

iii. Technology Investment Agreement (TIA): Assistance Transaction other than a Grant or a Cooperative Agreement (see 32 CFR Part 37). A legal instrument, consistent with 10 U.S.C. 2371, which may be used when the use of a contract, grant, or cooperative agreement is not feasible or appropriate for basic, applied, and advanced research projects. The research covered under a TIA shall not be duplicative of research being conducted under an existing DoD program. To the maximum extent practicable, TIAs shall provide for a 50/50 cost share between the Government and the applicant. An applicant's cost share may take the form of cash, independent research and development

(IR&D), foregone intellectual property rights, equipment, access to unique facilities, and/or other means. Due to the extent of cost share, and the fact that a TIA does not qualify as a “funding agreement” as defined at 37 CFR 401.2(a), the intellectual property provisions of a TIA can be negotiated to provide expanded protection to an applicant’s intellectual property. No fee or profit is allowed.

c. **Other Transaction for Prototype (OTA):** A legal instrument, consistent with 10 U.S.C. 2371b, which may be used when the use of a contract, grant, or cooperative agreement is not feasible or appropriate for prototype projects directly relevant to enhancing the mission effectiveness of military personnel and the supporting platforms, systems, components, or materials proposed to be acquired or developed by the Department of Defense, or for improvement of platforms, systems, components, or materials in use by the armed forces. The effort covered under an OTA shall not be duplicative of effort being conducted under an existing DoD program. Please refer to the DoD “Other Transactions Guide for Prototype Projects” dated January 2017. This document along with other OTA resources may be accessed at the following link:

<http://www.acq.osd.mil/dpap/cpic/cp/10USC2371bOTs.html>

5. Assistance Instruments

Any assistance instrument awarded under this announcement will be governed by the award terms and conditions that conform to DoD’s implementation of OMB circulars applicable to financial assistance. Terms and conditions of new awards made after December 26, 2014, will include revisions to reflect DoD implementation of new OMB guidance in 2 CFR Part 200, “Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards.” The DoD Terms and Conditions are located at <http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx>.

C. Eligibility Information

1. Eligible Applicants

a. All responsible sources from academia, industry and the research community may submit proposals under this BAA. Historically Black Colleges and Universities (HBCUs) and Minority Institutions (MIs) are encouraged to submit proposals and join others in submitting proposals. However, no portion of this BAA will be set aside for Small Business or other socio-economic participation. All businesses both small and large are encouraged to submit proposals and compete for funding consideration.

b. Federally Funded Research & Development Centers (FFRDCs), including Department of Energy National Laboratories, **are not** eligible to receive awards under this BAA. However, teaming arrangements between FFRDCs and eligible principal proposers are allowed so long as such arrangements are permitted under the sponsoring agreement between the Government and the specific FFRDC.

c. Navy laboratories, military universities and warfare centers as well as other Department of Defense and civilian agency laboratories **are also not** eligible to receive awards under this BAA and should not directly submit either white papers or full proposals in response to this BAA. As with FFRDCs, these types of federal organizations may team with other eligible sources from academia and industry that are submitting proposals under this BAA.

d. University Affiliated Research Centers (UARCs) are eligible to submit proposals under this BAA unless precluded from doing so by their Department of Defense UARC contract.

e. Teams are also encouraged and may submit proposals in any and all areas. However, proposers 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 NAWCAD.

2. Cost Sharing or Matching – Cost sharing is not required; however, it will be carefully considered where there is an applicable statutory condition relating to the selected funding instrument (e.g., OTs under the authority of 10 U.S.C. § 2371).

D. Application and Submission Information

1. Address to Request (Access) Application Package - This BAA may be accessed from the sites below. Amendments, if any, to this BAA will be posted to these websites when they occur. Interested parties are encouraged to periodically check these websites for updates and amendments.

- a. Grants.gov (www.grants.gov)
- b. FedBizOpps (www.fbo.gov)

2. Content and Form of Application Submission

- a. General Information

The submission process is two-phased as described below. No further Request for Information (RFI) or other announcement of this opportunity will be made.

PHASE I – White Paper

White Papers may be submitted at any time up until June 14, 2019, 5:00 PM Eastern time. If a proposer does not submit a white paper before the specified due date and time, it is not eligible to participate in the remaining Full Proposal submission process and is not eligible for funding.

Proposers are instructed to submit White Papers only for actual technologies within the areas of interest in Part II Section A, Program Description. Each white paper should

state that it is submitted in response to this BAA and cite the particular Research Opportunity Area of Interest that the white paper is specifically addressing. If addressing more than one Research Opportunity Area of Interest, then separate standalone white paper submissions shall be required. White papers with general responses to multiple areas of interest will be determined to be non-compliant and will not be further considered.

White Paper Evaluation/Notification: Navy evaluations of the white papers are anticipated to be conducted on a quarterly basis. However, any such review does not assure a subsequent award. Any proposer whose white paper was not identified as being of particular value to the Navy is ineligible to submit a full proposal under this BAA.

PHASE II – Full Technical/Cost Proposal (BY INVITATION ONLY)

Only proposers whose PHASE I - White Paper is considered of interest in meeting existing or future program requirements will be asked to submit a PHASE II – Full Proposal. NAWCAD will not respond to every White Paper received. If no request for a Phase II proposal is received, do not submit a Full Technical/Cost Proposal. Request for submission of a technical/cost proposal does not guarantee an award.

All proposal submissions will be protected from unauthorized disclosure in accordance with FAR Subpart 15.207, applicable law, and DoD/DoN regulations. Proposers are expected to appropriately mark each page of their submission that contains proprietary information.

b. Submission of Unclassified and Classified White Papers

- White Papers submitted under this BAA are expected to be unclassified; however, should a proposer wish to submit classified information, an **UNCLASSIFIED** email must be sent to Ms. Elisabeth Keith at the following email address, Elisabeth.keith@navy.mil, requesting submission instructions.
- Unclassified Proposal Instructions: Unclassified proposals shall be submitted in accordance with this Section.

c. White Paper Requirements.

i. White Paper Format

- Paper Size – 8.5 x 11 inch paper
- Margins – 1 inch
- Spacing –single-spaced
- Font – Times New Roman or Calibri, 12 point
- Page limit– 3 pages, exclusive of cover page

ii. White Paper Submission. E-mail submission is required (per the instructions below). the white paper must be a Microsoft Word 2010 compatible, or PDF format attachment to the email. There is an email size limit of 5MB per email.

- Electronic (email) submissions should be sent to the attention of the BAA Coordinator at: NAWCAD_OFFICEWID.fct@navy.mil
- The subject line of the email shall include reference to BAA Number N00421-18-S-0001 and list the applicable Research Opportunity Area of Interest
- Do not send ZIP files or password protected files.

iii. White Paper Content: White papers shall include the following:

- Cover Page: The Cover Page shall be labeled “WHITE PAPER” and shall include the BAA Number, proposed title, research opportunity area of interest, contracts and technical points of contact, telephone number, facsimile number, and E-mail address. IMPORTANT NOTE: Titles given to the White Papers should be descriptive of the work they cover and not be merely a copy of the title of this solicitation.
- Technical Concept: A description of the technology innovation and technical risk areas.
- Future Naval Relevance – A description of potential Naval relevance and contributions of the effort to the agency’s specific mission.
- Navy Lead: Provide the name, organizational code, and phone number of the NAWCAD lead, if known. Leave this entry blank if there is no Navy Lead.
- Rough Order of Magnitude cost estimate

d. Full Proposals: (See Appendices 1 and 2 for instructions.)

- i. Instructions for Grants, Cooperative Agreements, and TIA’s.
(See Appendix 1)
- ii. Instructions for Contracts.
(See Appendix 2)
- iii. Instructions for Other Transaction Agreements.
(See Appendix 3)

3. Unique Entity Identifier and System for Award Management (SAM)

Unique Entity Identifier and System for Award Management (SAM) - All proposers submitting proposals or applications must:

- a. Be registered in the SAM prior to submission;
- b. Maintain an active SAM registration with current information at all times during which it has an active Federal award or an application under consideration by any agency; and
- c. Provide its DUNS number in each application or proposal it submits to the agency.

SAM may be accessed at <https://www.sam.gov/portal/public/SAM>

Effective 27 April 2018, all new entities registering in SAM, as well as existing registrations being updated or renewed, will require the submission of an original, signed notarized letter identifying the authorized Entity Administrator for the entity associated with the Data Universal Numbering System (DUNS) number before the registration will be activated. Please be aware that processing this additional information may take several days and proposers are advised to be proactive in maintaining their SAM registration in an “Active” status as the government cannot award to an entity without an “Active” SAM registration. More information can be found at www.gsa.gov/samupdate.

4. Submission Dates and Times

(See Section I, paragraph A.6, Key Dates, for information)

Submission of Late Proposals (Applicable to White Papers and Full Proposals):

Any white paper, proposal, modification, or revision, that is received at the designated Government office after the exact time specified for receipt is late and will not be considered.

5. Funding Restrictions

Not Applicable

E. Application Review Information

1. Evaluation Criteria

Proposals will be evaluated using the following criteria:

1) *Technical Approach:*

This criterion rates the degree to which the proposed technical approach is innovative, feasible, achievable, and complete. The task descriptions and associated technical elements are complete and in a logical sequence. The proposal identifies major technical risks, clearly defines feasible risk mitigation efforts, and outlines anticipated schedule.

2) *Potential Contribution and Relevance to the NAWCAD Mission:*

This criterion rates the degree to which the potential contributions of the proposed effort

are relevant to the NAWCAD and Department of the Navy mission.

3) *Cost:*

This criterion rates the degree to which the proposed costs are realistic for the technical approach and accurately reflect the technical goals and objectives of the applicable area of interest. The proposed costs are consistent with the proposer's Statement of Work and reflect a sufficient understanding of the costs and level of effort needed to successfully accomplish the proposed technical approach. The costs for the prime proposer and proposer's subawardees are substantiated by the details provided in the full proposal (e.g., the type and number of labor hours proposed per task, the type and quantities of materials, equipment and fabrication costs, travel and any other applicable costs and the basis for the estimates).

Criteria 1, 2, and 3 are equally important.

2. Review and Selection Process

a. NAWCAD will conduct a scientific review of each conforming proposal. Conforming proposals comply with all requirements detailed in this BAA; proposals that fail to do so may be deemed non-conforming and may be removed from consideration. NAWCAD may, at its discretion, choose not to make an award to any proposer for any reason.

Proposals will not be evaluated against each other since they are not submitted in accordance with a common work statement. NAWCAD's intent is to review proposals as soon as possible after they arrive; however, proposals may be reviewed periodically for administrative reasons.

Selections may be made at any time during the period of solicitation. Pursuant to FAR 35.016, the primary basis for selection proposals for award negotiations shall be technical, importance to agency programs, and fund availability.

The ultimate recommendation for award of proposals is made by NAWCAD's scientific/technical community. Recommended proposals will then be forwarded to the NAWCAD Aircraft Support Contracts Division. Any notification received from NAWCAD that indicates that the proposer's full proposal has been recommended does not ultimately guarantee an award will be made. This notice indicates that the proposal has been selected in accordance with the evaluation criteria stated above and has been sent to the Contracting Department to conduct cost analysis, determine the proposer's responsibility, to confirm whether funds are available, and to take other relevant steps necessary prior to commencing negotiations with the proposer.

b. Options

The Government will evaluate options for award purposes by adding the total cost for all options to the total cost for the basic requirement. Evaluation of options will not obligate the Government to exercise the options during contract or grant performance.

c. Evaluation Panel

Scientists and engineers who serve the government as subject matter experts will evaluate the white papers and proposals received at NAWCAD. In many cases, the subject matter experts will participate in an awarded project as a Navy Lead with the responsibility of guiding, coordinating and executing efforts in support of the project.

Technical and cost proposals submitted under this BAA will be protected from unauthorized disclosure in accordance with FAR 3.104-4 and 15.207. The cognizant Program Officer and other Government scientific experts will perform the evaluation of technical proposals.

3. Recipient Qualifications

- a. Applicable to Grants, Cooperative Agreements and TIAs
(See Appendix 1.)
- b. Applicable to Contracts
(See Appendix 2.)
- c. Applicable to Other Transaction Agreements
(See Appendix 3.)

F. Federal Award Administration Information

1. Administrative and National Policy Requirements

Export Control Laws

Proposers should be aware of recent changes in export control laws. Proposers are responsible for ensuring compliance with all U.S. export control laws and regulations, including the International Traffic in Arms Regulation (ITAR)(22 CFR Parts 120 - 130) and Export Administration Regulation (EAR) (15 CFR Parts 730 – 774), as applicable. In some cases, developmental items funded by the Department of Defense are now included on the United States Munition List (USML) (22 CFR Part 121) and are therefore subject to ITAR jurisdiction. In other cases, items that were previously included on the USML have been moved to the EAR Commerce Control List (CCL). Proposers should address in their proposals whether ITAR or EAR restrictions apply to the work they are proposing to perform for NAWCAD. The ITAR and EAR are available online at <http://www.ecfr.gov/>. Additional information regarding the President's Export Control Reform Initiative can be found at <http://export.gov/ecr/index.asp>.

Proposers must comply with all U.S. export control laws and regulations, including the ITAR and EAR, in the performance of any award or agreement resulting from this BAA. Proposers shall be responsible for obtaining any required licenses or other approvals, or license exemptions or exceptions if applicable, for exports of hardware, technical data, and software (including deemed exports), or for the provision of technical assistance.

Security Classification:

In order to facilitate intra-program collaboration and technology transfer, the Government will attempt to enable technology developers to work at the unclassified level to the maximum extent possible. If access to classified material will be required at any point during performance, the proposer must coordinate with the Technical Point of Contact and Security.

If it is determined that access to classified information will be required during the performance of an award, a Department of Defense (DD) Form 254 will be attached to the contract, and FAR 52.204-2 - Security Requirements will be incorporated into the contract.

NAWCAD does not provide access to classified material under assistance instruments.

Requirements Concerning Live Organisms:

a) Use of Animals: Award recipients performing research, experimentation, or testing involving the use of animals shall comply with the rules on animal acquisition, transport, care, handling, and use as outlined in: (i) 9 CFR parts 1-4, Department of Agriculture rules that implement the Animal Welfare Act of 1966, as amended, (7 U.S.C. § 2131-2159); (ii) National Institutes of Health Publication No. 86-23, "Guide for the Care and Use of Laboratory Animals" (8th Edition); and (iii) DoD Instruction 3216.01, "Use of Animals in DoD Programs."

For projects anticipating animal use, proposals should briefly describe plans for Institutional Animal Care and Use Committee (IACUC) review and approval. Animal studies in the program will be expected to comply with the Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals, available at <http://grants.nih.gov/grants/olaw/olaw.htm>.

All award recipients must receive approval by a DoD-certified veterinarian, in addition to an IACUC approval. No animal studies may be conducted using DoD/DARPA funding until the United States Army Medical Research and Materiel Command (USAMRMC) Animal Care and Use Review Office (ACURO) or other appropriate DoD veterinary office(s) grant approval. As a part of this secondary review process, the award recipient will be required to complete and submit an ACURO Animal Use Appendix, which may be found at http://mrmc.amedd.army.mil/index.cfm?pageid=research_protections.acuro_animalappendix.

b) Use of Human Subjects in Research: Proposers' must protect the rights and welfare of individuals who participate as human subjects in research under this award and comply with the requirements of the Common Rule at 32 CFR part 219 and applicable provisions of DoD Instruction 3216.02, Protection of Human Subjects and Adherence to Ethical Standards in DoD-Supported Research (2011), the DON implementation of the human research protection program contained in

SECNAVINST 3900.39D (or its replacement), 10 USC 980 “Limitation on Use of Humans as Experimental Subjects,” and when applicable, Food and Drug Administration (FDA) and other federal and state law and regulations.

For proposals containing activities that include or may include “research involving human subjects” as defined in DoDI 3216.02, prior to award, the proposer must submit documentation of:

- i. Approval from an Institutional Review Board (IRB) (IRB-approved research protocol, IRB- approved informed consent document, and other material they considered); proof of completed human research training (e.g., training certificate or institutional verification of training for the principal investigator, co-investigators); and the proposer’s Department of Health and Human Services (DHHS)-issued Federal Wide Assurance (FWA#),
- ii. Any claimed exemption under 32 CFR 219 101(b), including the category of exemption, supporting documentation considered by your institution in making the determination (e.g., protocol, data collection tools, advertisements, etc.). The documentation shall include a short rationale supporting the exemption determination. This documentation should be signed by the IRB Chair or IRB vice Chair, designated IRB administrator or official of the human research protection program.
- iii. Any determinations that the proposal does not contain activities that constitute research involving human subjects, including supporting documentation considered by your institution in making the determination. This documentation should be issued by the IRB Chair or IRB vice Chair, designated IRB administrator or official of the human research protection program.

Documentation must be submitted to the NAWCAD Human Research Protection Official (HRPO), by way of the NAWCAD Aircraft Support Contracts Division. If the research is determined by the IRB to be greater than minimal risk, you also must provide the name and contact information for the independent research monitor and a written summary of the monitors’ duties, authorities, and responsibilities as approved by the IRB.

Contracts, orders, or grant awards and any subawards or modifications will include a statement indicating successful completion of the HRPO review. Research involving human subjects must not be commenced under any award or modification or any subcontract or grant subaward or modification until awardee receives notification from the Contracting or Grants Officer that the HRPO has approved the assurance as appropriate for the research under the award or modification and that the HRPO has reviewed the protocol and accepted the IRB approval or determination for compliance with Federal, DoD and DON research protection requirements. See DFARS 252.235-7004.

Use of Recombinant DNA or Synthetic Nucleic Acid Molecules

Proposals which call for experiments using recombinant or synthetic nucleic acid molecules must include documentation of compliance with NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules (NIH Guidelines), approval of the Institutional Biosafety Committee (IBC), and copies of the DHHS Approval of the IBC letter.

Institutional Dual Use Research of Concern

As of September 24, 2015, all institutions and United States Government (USG) funding agencies subject to the [United States Government Policy for Institutional Oversight of Life Sciences Dual Use Research of Concern](#) must comply with all the requirements listed therein. If your research proposal directly involves certain biological agents or toxins, contact the cognizant Technical Point of Contact. U.S. Government Science, Safety, Security (S3) guidance may be found at <http://www.phe.gov/s3/dualuse>.

Department of Defense High Performance Computing Program

The DoD High Performance Computing Program (HPCMP) furnishes the DoD S&T and RDT&E communities with use-access to very powerful high performance computing systems. Awardees of NAWCAD contracts, grants, and other assistance instruments may be eligible to use HPCMP assets in support of their funded activities if NAWCAD Program Officer approval is obtained and if security/screening requirements are favorably completed. Additional information and an application may be found at <http://www.hpcmo.hpc.mil/>.

Publication of Grant Awards

Per Section 8123 of the Department of Defense Appropriations Act, 2015 (Pub. L. 113-235), all grant awards must be posted on a public website in a searchable format. To comply with this requirement, proposers requesting grant awards must submit a maximum one (1) page abstract that may be publicly posted and explains the program or project to the public. The proposer should sign the bottom of the abstract confirming the information in the abstract is approved for public release. Proposers are advised to provide both a signed PDF copy, as well as an editable (e.g., Microsoft Word) copy. Abstracts contained in grant proposals that are not selected for award will not be publicly posted.

2. Reporting:

If the total Federal share of the Federal award may include more than \$500,000 over the period of performance, the post award reporting requirements, Award Term and Condition for Recipient Integrity and Performance Matters (2 CFR Part 200 Appendix XII), is applicable as follows:

Reporting of Matters Related to Recipient Integrity and Performance

1. **General Reporting Requirement.** If the total value of your currently active grants, cooperative agreements, and procurement contracts from all Federal awarding agencies exceeds \$10,000,000 for any period of time during the period of performance of this Federal award, then you as the recipient during that period of time must maintain the currency of information reported to the System for Award Management (SAM) that is made available in the designated integrity and performance system (currently the Federal Awardee Performance and Integrity Information System (FAPIIS)) about civil, criminal, or administrative proceedings described in paragraph 2 of this award term and condition. This is a statutory requirement under section 41 U.S.C. 2313. As required by section 3010 of Public Law 111-212, all information posted in the designated integrity and performance system on or after April 15, 2011, except past performance reviews required for Federal procurement contracts, will be publicly available.

2. **Proceedings About Which You Must Report.** Submit the information required about each proceeding that:

- a. Is in connection with the award or performance of a grant, cooperative agreement, or procurement contract from the Federal Government;
- b. Reached its final disposition during the most recent five-year period; and
- c. Is one of the following:

- (1) A criminal proceeding that resulted in a conviction, as defined in paragraph 5 of this award term and conditions;
- (2) A civil proceeding that resulted in a finding of fault and liability and payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,000 or more;
- (3) An administrative proceeding, as defined in paragraph 5. of this award term and condition that resulted in a finding of fault and liability and your payment of either a monetary fine or penalty of \$5,000 or more or reimbursement, restitution, or damages in excess of \$100,000; or
- (4) Any other criminal, civil, or administrative proceeding if:
 - (i) It could have led to an outcome described in paragraph 2.c. (1), (2), or (3) of this award term and condition;
 - (ii) It had a different disposition arrived at by consent or compromise with an acknowledgment of fault on your part; and
 - (iii) The requirement in this award term and condition to disclose information about the proceeding does not conflict with applicable laws and regulations.

3. **Reporting Procedures.** Enter in the SAM Entity Management area the information that SAM requires about each proceeding described in paragraph 2 of this award term and condition. You do not need to submit the information a second time under assistance awards that you received if you already provided the information through SAM because you were required to do so under Federal procurement contracts that you were awarded.

4. Reporting Frequency. During any period of time when you are subject to the requirement in paragraph 1 of this award term and condition, you must report proceedings information through SAM for the most recent five-year period, either to report new information about any proceeding(s) that you have not reported previously or affirm that there is no new information to report. Recipients that have Federal contract, grant, and cooperative agreement awards with a cumulative total value greater than \$10,000,000 must disclose semiannually any information about the criminal, civil, and administrative proceedings.

5. Definitions. For purposes of this award term and condition:

- a. Administrative proceeding means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (e.g., Securities and Exchange Commission Administrative proceedings, Civilian Board of Contract Appeals proceedings, and Armed Services Board of Contract Appeals proceedings). This includes proceedings at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include audits, site visits, corrective plans, or inspection of deliverables.
- b. Conviction, for purposes of this award term and condition, means a judgment or conviction of a criminal offense by any court of competent jurisdiction, whether entered upon a verdict or a plea, and includes a conviction entered upon a plea of nolo contendere.
- c. Total value of currently active grants, cooperative agreements, and procurement contracts includes—
 - (1) Only the Federal share of the funding under any Federal award with a recipient cost share or match; and
 - (2) The value of all expected funding increments under a Federal award and options, even if not yet exercised.

Further guidance for reporting:

- Applicable to Grants, Cooperative Agreements, and TIA's (See Appendix 1).
- Applicable to Contracts (See Appendix 2).
- Applicable to Other Transaction Agreements (See Appendix 3).

G. Federal Awarding Agency Contacts

1. Communications:

a. Technical or administrative questions only shall be submitted via e-mail to the Technical Point of Contact (POC) at David.Barrett@navy.mil with a copy to the designated Business POC at Elisabeth.Keith@navy.mil.

b. All White Papers shall be submitted via email to:

NAWCAD_OFFICEWID.fct@navy.mil

Any White Paper submissions not submitted to the email address provided above will not be reviewed.

APPENDIX 1 – REQUIREMENTS APPLICABLE TO GRANTS, TIA’s AND COOPERATIVE AGREEMENTS

A. Application and Submission Information

1. Content and Form of Application Submission

(a) Full Proposals:

- i. Instructions for Grants, Cooperative Agreements, and TIAs

Content and Form of Application:

Applicants must submit a full proposal accordance with the instructions provided below. Files must be in Adobe Portable Document Format (PDF) or Microsoft Word 2010 compatible and Microsoft Excel Spreadsheet.

Full Proposal Format

- Paper Size – 8.5 x 11 inch paper
- Margins – 1 inch
- Spacing – single-spaced
- Font – Times New Roman or Calibri, 12 point
- Page limit - 25 pages, exclusive of cover page. There are no page limitations for the cost proposal.

NOTE: The electronic file name for all documents submitted under this BAA must not exceed 68 characters in length, including the file name extension.

The technical proposal must describe the research in sections as described below:

- **Cover Page:** This must include the words “Technical Proposal” and the following:
 - (a) BAA Number: N00421-18-S-0001;
 - (b) Title of Proposal;
 - (c) Identity of prime applicant and complete list of subawards, if applicable;
 - (d) Type of organization, selected from the following categories: Large Business, Small Disadvantaged Business, Other Small Business, HBCU, MI, Other Educational, or Non Profit;
 - (d) Technical contact (name, address, phone/fax, electronic mail address);
 - (e) Administrative/business contact (name, address, phone/fax, electronic mail address) and;
 - (f) Total Amount of the proposed effort;
 - (g) Place(s) and period of performance (identify both the base period and any options, if included).
 - (h) Award instrument requested;
 - (i) Proposal validity period (minimum 120 days);

- (j) Data Universal Numbering System (DUNS) number;
- (k) Taxpayer identification number;
- (l) Commercial and Government Entity (CAGE) code

Note: In all cases, the Government Contracting Officer has sole discretion to select award instrument type, regardless of instrument type proposed, and to negotiate all instrument terms and conditions with selectees.

- **Table of Contents:** A listing of the sections within the proposal, including corresponding page numbers.
- **Executive Summary:** Provide a synopsis of the proposed project, including answers to the following questions:
 - What is the proposed work attempting to accomplish or do?
 - How is it done today, and what are the limitations?
 - Who or what will be affected and what will be the impact if the work is successful?
 - How much will it cost, and how long will it take?

The executive summary should include a description of the key technical challenges, a concise review of the technologies proposed to overcome these challenges and achieve the project's goal, and a clear statement of the novelty and uniqueness of the proposed work.

- **Technical Approach.** Describe the basic scientific or technical concepts that will be investigated, giving the complete research plan. Describe what is innovative about the proposed approach. Provide the proposed approach compared to alternate approaches other researchers in this field have taken. Given the successful completion, describe the results, new knowledge, or insights.

- **Future Naval Relevance:** A description of potential Naval relevance and contributions of the effort to the agency's specific mission.
- **Project Schedule and Milestones:** A summary of the schedule of events and milestones.
- **Detailed Task Description:** A detailed description of work to include a detailed task breakdown, citing specific tasks and their connection to the interim milestones and metrics, as applicable. Any optional tasking shall be separately identifiable within the document.
 - Technical and Financial Progress Reports
 - Final Report

Grants do not include the delivery of software, prototypes, and other hardware deliverables.

- **Principal Investigator Qualifications:** A discussion of the qualifications of the proposed

Principal Investigator and any other key personnel. Include resumes or curricula vitae for the Principal Investigator, other key personnel and consultants. The resumes/curricula vitae shall be attached to the proposal.

- **Facilities & Equipment:** Describe facilities available for performing the proposed research and any additional facilities or equipment the organization proposes to acquire at its own expense. Indicate government-owned facilities or equipment already possessed that will be used. Justify the need for each equipment item. (Additional facilities and equipment will not be provided unless the research cannot be completed by any other practical means.)

2. Cost Proposal

A separate Adobe .pdf document, in addition to a fully disclosed unburdened cost proposal with working formulas in Microsoft Excel, should be included in the proposal that provides appropriate justification and/or supporting documentation for each element of cost proposed.

(a) **Part 1:** The cost proposal shall include the following

- Direct Labor – Individual labor categories or persons, with associated labor hours and unburdened direct labor rates. Provide basis for escalation rates for out years.
- Administrative and Clerical Labor – Salaries of administrative and clerical staff are normally indirect costs (and included in an indirect cost rate). Direct charging of these costs may be appropriate when a major project requires an extensive amount of administrative or clerical support significantly greater than normal and routine levels of support. Budgets proposing direct charging of administrative or clerical salaries must be supported with a budget justification which adequately describes the major project and the administrative and/or clerical work to be performed.
- Fringe Benefits and Indirect Costs (F&A, Overhead, G&A, etc.) – The application should show the rates and calculation of the costs for each rate category. If the rates have been approved/negotiated by a Government agency, provide a copy of the memorandum/agreement. If the rates have not been approved/negotiated, provide sufficient detail to enable a determination of allowability, allocability and reasonableness of the allocation bases, and how the rates are calculated. Additional information may be requested, if needed. If composite rates are used, provide the calculations used in deriving the composite rates.
- Travel – The proposed travel cost must include the following for each trip: the purpose of the trip, origin and destination if known, approximate duration, the number of travelers, the estimated cost per trip, and basis for estimation. Such estimates and the resultant costs claimed must conform to the applicable Federal cost principles.
- Subawards/Subcontracts – Provide a description of the work to be performed by the subawardee/subcontractor. For each subaward, a detailed cost proposal is required to be

submitted by the subawardee(s). A proposal and any supporting documentation must be received and reviewed before the Government can complete its cost analysis of the proposal and enter negotiations. NAWCAD's preferred method of receiving subcontract information is for this information to be included with the Prime's proposal. However, a subcontractor's cost proposal can be provided via e-mail directly to the Government at the same time the prime proposal is submitted. The e-mail shall identify the proposal title, the prime Applicant and that the attached proposal is a subcontract.

- Consultants – Provide a breakdown of the consultant's hours, the hourly rate proposed, any other proposed consultant costs, a copy of the signed Consulting Agreement or other documentation supporting the proposed consultant rate/cost, and a copy of the consultant's proposed tasking if it is not already separately identified in the prime contractor's proposal.
- Materials & Supplies – Provide an itemized list of all proposed materials and supplies including quantities, unit prices, and the basis for the estimate (e.g., quotes, prior purchases, catalog price lists).
- Awardee Acquired Equipment or Facilities – Equipment and/or facilities are normally furnished by the awardee. If acquisition of equipment and/or facilities is proposed, a justification for the purchase of the items must be provided. Provide an itemized list of all equipment and/or facilities costs and the basis for the estimate (e.g., quotes, prior purchases, catalog price lists). Allowable items normally are limited to research equipment not already available for the project. General purpose equipment (i.e., equipment not used exclusively for research, scientific or other technical activities, such as personal computers, laptops, office equipment) should not be requested unless they will be used primarily or exclusively for the project. For computer/laptop purchases and other general purpose equipment, if proposed, include a statement indicating how each item of equipment will be integrated into the program or used as an integral part of the research effort.
- Other Direct Costs – Provide an itemized list of all other proposed other direct costs such as Graduate Assistant tuition, laboratory fees, report and publication costs, and the basis for the estimate (e.g., quotes, prior purchases, catalog price lists).
- Fee/Profit – Fee/profit is unallowable under assistance agreements at either the prime or subaward level.

B. Application Review Information

1. Recipient Qualifications
 - a. Grant, Cooperative Agreement, and TIA Proposals

i. The Grants Officer is responsible for determining a recipient's qualification prior to award. In general, a Grants Officer will award grants or cooperative agreements only to qualified awardees that meet the standards at 32 CFR 22.415. To be qualified, a potential recipient must:

(1) Have the management capability and adequate financial and technical resources, given those that would be made available through the grant or cooperative agreement, to executed the program of activities envisioned under the grant or cooperative agreement;

(2) Have a satisfactory record of executing such programs or activities (if a prior recipient of an award);

(3) Have a satisfactory record of integrity and business ethics; and

(4) Be otherwise qualified and eligible to receive a grant or cooperative agreement under applicable laws and regulations

(5) Not identified in the Excluded Parties List System (EPLS) as being debarred, suspended or otherwise ineligible to receive the award,

The Grant Officer reserves the right to request additional information to support the responsibility determination of the awardee.

ii. In accordance with Office of Management and Budget (OMB) guidance in parts 180 and 200 of Title 2, CFR, in its DoD policy that DoD Components must report and use integrity and performance information in the Federal Awardee Performance and Integrity Information System (FAPIIS), or any successor system designated by OMB, concerning grants, cooperative agreements, and TIA's as follows:

If the total Federal share will be greater than the simplified acquisition threshold on any Federal award under a notice of funding opportunity (see 2 CFR 200.88 Simplified Acquisition Threshold):

(1) The Federal awarding agency, prior to making a Federal award with a total amount of Federal share greater than the simplified acquisition threshold, is required to review and consider any information about the applicant that is in the designated integrity and performance system accessible through SAM (currently FAPIIS)(see 41 U.S.C. 2313);

(2) An applicant, at its option, may review information in the designated integrity and performance systems accessible through SAM and comment on any information about itself that a Federal awarding agency previously entered and is currently in the designated integrity and performance system accessible through SAM;

(3) The Federal awarding agency will consider any comments by the applicant, in addition to the other information in the designated integrity and performance system, in making a judgment about the applicant's integrity, business ethics, and record of

performance under Federal awards when completing the review of risk posed by applicants as described in 2 CFR 200.205 Federal awarding agency review of risk posed by applicants.

APPENDIX 2 - REQUIREMENTS APPLICABLE TO CONTRACTS

A. Application and Submission Information

1. Content and Form of Application Submission

- (a) Full Proposals:
 - i. Instructions for Contracts

Content and Form Application:

Applicants must submit a full proposal in accordance with the instructions provided below. Files must be in Adobe Portable Document Format (PDF), Microsoft Word 2010 compatible and Microsoft Excel 2010 compatible. Do not password-protect documents.

Full Proposal Format

- Paper Size- 8.5 x 11 inch paper
- Margins – 1 inch
- Spacing- single-spaced
- Font- Times New Roman or Calibri, 12 point
- Technical Proposal Page limit – 25 pages, exclusive of cover page. There are no page limitations for the Cost Proposal or the remaining submission requirements.

NOTE: The electronic file name for all documents submitted under this BAA must not exceed 68 characters in length, including the file name extension.

The following documents, with attachments, comprise a complete proposal package as described below:

- **Cover Page:** This must include the following:
 - (a) BAA Number: N00421-18-S-0001;
 - (b) Title of Proposal;
 - (c) Identity of prime applicant and complete list of subcontractors, if applicable;
 - (d) Type of organization, selected from the following categories: Large Business, Small Disadvantaged Business, Other Small Business, HBCU, MI, Other Educational, or Non Profit;
 - (d) Technical contact (name, address, phone/fax, electronic mail address);
 - (e) Administrative/business contact (name, address, phone/fax, electronic mail address) and;
 - (f) Total Amount of the proposed effort;
 - (g) Place(s) and period of performance (identify both the base period and any options, if included).
 - (h) Award instrument requested;
 - (i) Proposal validity period (minimum 120 days);

- (j) Data Universal Numbering System (DUNS) number;
- (k) Taxpayer identification number;
- (l) Commercial and Government Entity (CAGE) code

Note: In all cases, the Government Contracting Officer has sole discretion to select award instrument type, regardless of instrument type proposed, and to negotiate all instrument terms and conditions with selectees.

- **Table of Contents:** A listing of the sections within the proposal, including corresponding page numbers.

- **Proposal Adequacy Checklist in accordance with DFARS 252.215-7009**

Proposer shall complete the proposal adequacy checklist contained at DFARS 252.215-7009, providing the location of requested information, or an explanation of why the requested information is not provided. In preparation of the proposer's checklist, proposers may elect to have their prospective subcontractors use the same or similar checklist as appropriate.

- **Executive Summary:** Provide a synopsis of the proposed project, including answers to the following questions:

- What is the proposed work attempting to accomplish or do?
- How is it done today, and what are the limitations?
- Who or what will be affected and what will be the impact if the work is successful?
- How much will it cost, and how long will it take?

The executive summary should include a description of the key technical challenges, a concise review of the technologies proposed to overcome these challenges and achieve the project's goal, and a clear statement of the novelty and uniqueness of the proposed work.

- **Technical Proposal:** The technical proposal must describe the research in sections as described below:

- a) **Technical Approach.** Describe the basic scientific or technical concepts that will be investigated, giving the complete research plan. Describe what is innovative about the proposed approach. Provide the proposed approach compared to alternate approaches other researchers in this field have taken. Given the successful completion, describe the results, new knowledge, or insights.
- b) **Future Naval Relevance:** A description of potential Naval relevance and contributions of the effort to the agency's specific mission.
- c) **Project Schedule and Milestones:** A summary of the schedule of events and milestones.
- d) **Stand-alone non-proprietary Statement of Work:** The Statement of Work must clearly

define the technical tasks/subtasks to be performed, their durations, and dependencies among them. For each task/subtask, provide:

- A general description of the objective (for each defined task/activity);
- A detailed description of the approach to be taken to accomplish each defined task/subtask;
- Identification of the primary organization responsible for task execution (prime contractor, subcontractor(s), consultant(s)), by name;
- A measurable milestone (e.g., a deliverable, demonstration, or other event/activity that marks task completion);
- A definition of all deliverables (reporting, data, reports, software, etc.) to be provided to the Government in support of the proposed research tasks/subtasks; and
- Clearly identify any tasks/subtasks (to be performed by either a prime or sub) that will be accomplished on-campus at a university, if applicable.
- Any optional tasking shall be separately identifiable within the document.

Note: It is recommended that the SOW should be developed so that each Phase of the program is separately defined. The SOW shall be submitted in Microsoft Word format.

- e) **Key Personnel Qualifications:** A discussion of the qualifications of all key personnel. Include resumes or curricula vitae for any key personnel and consultants.
- f) **Facilities & Equipment.** Describe facilities available for performing the proposed research and any additional facilities or equipment the organization proposes to acquire at its own expense. Indicate government-owned facilities or equipment already possessed that will be used. Justify the need for each equipment item. (Additional facilities and equipment will not be provided unless the research cannot be completed by any other practical means.)
- **Cost Proposal Spreadsheet:** A separate Adobe .pdf document, in addition to a fully disclosed unburdened cost proposal with working formulas in Microsoft Excel, should be included in the proposal that provides appropriate justification and/or supporting documentation for each element of cost proposed. The electronic submission of the Excel spreadsheet should be in a “useable condition” to aid the Government with its evaluation. The term “useable condition” indicates that the spreadsheet should visibly include and separately identify within each appropriate cell any and all inputs, formulas, calculations, etc. The proposer should not provide “value only spreadsheets” similar to a hard copy.
 - (a) **Part 1:** The cost proposal shall include the following
 - Direct Labor – Individual labor categories or persons, with associated labor hours and unburdened direct labor rates. Provide basis for escalation rates for out years.
 - Administrative and Clerical Labor – Salaries of administrative and clerical staff are normally indirect costs (and included in an indirect cost rate). Direct charging of these

costs may be appropriate when a major project requires an extensive amount of administrative or clerical support significantly greater than normal and routine levels of support. Budgets proposing direct charging of administrative or clerical salaries must be supported with a budget justification which adequately describes the major project and the administrative and/or clerical work to be performed.

- Fringe Benefits and Indirect Costs (F&A, Overhead, G&A, etc.) – The application should show the rates and calculation of the costs for each rate category. If the rates have been approved/negotiated by a Government agency, provide a copy of the memorandum/agreement. If the rates have not been approved/negotiated, provide sufficient detail to enable a determination of allowability, allocability and reasonableness of the allocation bases, and how the rates are calculated. Additional information may be requested, if needed. If composite rates are used, provide the calculations used in deriving the composite rates.
- Travel – The proposed travel cost must include the following for each trip: the purpose of the trip, origin and destination if known, approximate duration, the number of travelers, the estimated cost per trip, and basis for estimation. Such estimates and the resultant costs claimed must conform to the applicable Federal cost principles.
- Subcontracts – Provide a description of the work to be performed by the subcontractor. For each subcontractor, a detailed cost proposal is required to be submitted by the subcontractor(s). A proposal and any supporting documentation must be received and reviewed before the Government can complete its cost analysis of the proposal and enter negotiations. NAWCAD's preferred method of receiving subcontract information is for this information to be included with the Prime's proposal. However, a subcontractor's cost proposal can be provided via e-mail directly to the Government at the same time the prime proposal is submitted. The e-mail shall identify the proposal title, the prime Applicant and that the attached proposal is a subcontract.
- Consultants – Provide a breakdown of the consultant's hours, the hourly rate proposed, any other proposed consultant costs, a copy of the signed Consulting Agreement or other documentation supporting the proposed consultant rate/cost, and a copy of the consultant's proposed tasking if it is not already separately identified in the prime contractor's proposal.
- Materials & Supplies – Provide an itemized list of all proposed materials and supplies including quantities, unit prices, and the basis for the estimate (e.g., quotes, prior purchases, catalog price lists).
- Awardee Acquired Equipment or Facilities – Equipment and/or facilities are normally furnished by the awardee. If acquisition of equipment and/or facilities is proposed, a justification for the purchase of the items must be provided. Provide an itemized list of all equipment and/or facilities costs and the basis for the estimate (e.g., quotes, prior purchases, catalog price lists). Allowable items normally are limited to research equipment not already available for the project. General purpose

equipment (i.e., equipment not used exclusively for research, scientific or other technical activities, such as personal computers, laptops, office equipment) should not be requested unless they will be used primarily or exclusively for the project. For computer/laptop purchases and other general purpose equipment, if proposed, include a statement indicating how each item of equipment will be integrated into the program or used as an integral part of the research effort.

- Other Direct Costs – Provide an itemized list of all other proposed other direct costs, and the basis for the estimate (e.g., quotes, prior purchases, catalog price lists).

- Fee/Profit – In accordance with FAR 15.404-4(c)(4), the fee for experimental, developmental, or research work performed under a cost-plus-fixed-fee contract shall not exceed 15% of the contract’s estimated cost, excluding fee. For other cost-plus-fixed fee contracts, the fee shall not exceed 10% of the contract’s estimated cost, excluding fee.

- Certified Cost or Pricing Data – Certified cost or pricing data, or other than certified cost or pricing data, may be requested by the Contracting Officer in accordance with FAR 15.403.

- Options - If proposing options, they **must** be separately priced and separate spreadsheets should be provided for the base period and each option. In addition to providing summary by period of performance (base and any options), the Contractor is also responsible for providing a breakdown of cost for each task identified in the Statement of Work. The sum of all costs by task worksheets **MUST** equal the total cost summary.

- **Representations and Certifications**
 - a. Prospective awardees must be registered in the System for Award Management (SAM) database prior to award and complete electronic annual representations and certifications consistent with FAR guidance at 4.1102 and 4.1201. The representations can be found at www.sam.gov. Supplementary representations and certifications which must be included in the proposal submission are as follows:

Provision Number	Title
FAR 52.209-7	Information Regarding Responsibility Matters
DFARS 252.203-7005	Representation Relating to Compensation of Former DOD Officials
DFARS 252.204-7007 Alt A	Annual Representations and Certifications
DFARS 252.225-7003	Report of Intended Performance Outside the United States and Canada – Submission with Offer (applicable for proposals over \$13.5M)

b. Additional Guidance Regarding Data Rights/Intellectual Property Assertions

- i. Noncommercial Items (Technical Data and Computer Software): Proposers requesting a procurement contract must list all noncommercial technical data and computer software that it plans to generate, develop, and/or deliver, in which the Government will acquire less than unlimited rights and to assert specific restrictions on those deliverables. In the event a proposer does not submit the list, the Government will assume that it has unlimited rights to all noncommercial technical data and computer software generated, developed, and/or delivered, unless it is substantiated that the development of the noncommercial technical data and computer software occurred with mixed funding. If mixed funding is anticipated in the development of noncommercial technical data and computer software generated, developed, and/or delivered, proposers should identify the data and software in question as subject to Government Purpose Rights (GPR). In accordance with DFARS 252.227-7013, “Rights in Technical Data – Noncommercial Items,” and DFARS 252.227-7014, “Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation,” the Government will automatically assume that any such GPR restriction is limited to a period of 5 years, at which time the Government will acquire unlimited rights unless the parties agree otherwise. The Government may use the list during the evaluation process to evaluate the impact of any identified restrictions and may request additional information from the proposer, as may be necessary, to evaluate the proposer’s assertions. Failure to provide full information may result in a determination that the proposal is not compliant with the solicitation.
- ii. Commercial Items (Technical Data and Computer Software): Proposers requesting a procurement contract must list all commercial technical data and commercial computer software that may be included in any deliverables contemplated under the research project, and assert any applicable restrictions on the Government’s use of such commercial technical data and/or computer software. In the event a proposer does not submit the list, the Government will assume there are no restrictions on the Government’s use of such commercial items. The Government may use the list during the evaluation process to evaluate the impact of any identified restrictions and may request additional information from the proposer to evaluate the proposer’s assertions. Failure to provide full information may result in a determination that the proposal is not compliant with the solicitation.

- iii. For all technical data or computer software that will be furnished to the Government with other than unlimited rights, the proposer shall provide a list describing all proprietary claims to results, prototypes, deliverables or systems supporting and/or necessary for the use of the research, results, prototypes, and/or deliverables. Provide documentation proving ownership or possession of appropriate licensing rights to all patented inventions (or inventions for which a patent application has been filed) to be used for the proposed project. proposers shall use the format specified in DFARS 252.227-7017.

- **Additional Submission Requirements**

- a) Use of Arms, Ammunition and Explosives

- i. Safety

The proposer is required to be in compliance with DoD manual 4145.26-M, *DoD Contractor's Safety Manual for Ammunition and Explosives* if ammunitions and/or explosives are to be utilized under the proposed research effort. (See DFARS 223.370-5 and DFARS 252.223-7002) If ammunitions and/or explosives (A&E) are to be utilized under the proposed research effort, the Government requires a preaward safety survey in accordance with DFARS PGI 223.370-4(C)(iv) entitled *Preaward survey*.

If the proposer proposes that the Government provide Government-furnished A&E containing any nitrocellulose-based propellants and/or nitrate ester-based materials (such as nitroglycerin) or other similar A&E with a tendency to become chemically unstable over time, then NMCARS 5252.223-9000 will also apply to a resulting contract award. (See NMCARS 5223.370-5).

- ii. Security

If arms, ammunition or explosives (AA&E) are to be utilized under the proposed research effort, the Government requires a preaward security survey. (See DoD manual 5100.76-M, dated April 17, 2012, *Physical Security of Sensitive Conventional Arms, Ammunition and Explosives*, Enclosure 2, paragraph 2.a.)

If AA&E are to be utilized under the proposed research effort, the Government may require the Contractor to have perimeter fencing around the place of performance in accordance with DoD 5100.76-M dated April 17, 2012, Enclosure 5, paragraph 2.a.

If AA&E are to be utilized under the proposed research effort, the proposer is required to provide a written copy of the proposer's AA&E accountability procedures in accordance with DoD 5100.76-M. If the proposer is required to provide written AA&E accountability procedures, the proposer should provide the respective procedures with its proposal submission. See DoD 5100.76-M dated April 17, 2012,

Enclosure 9, paragraph 9.

b) Conflicts of Interest

i. Disclosure.

A proposer shall state in its proposal whether it is aware of any information bearing on the existence of any actual or potential organizational conflict of interest (OCI) as defined in FAR 2.101 and as further discussed in FAR Subpart 9.5 as to itself and any proposed subcontractors, partners, consultants or other affiliates. Proposers performing systems engineering and technical assistance (SETA) or Advisory and Assistance Services (A&AS) for NAWCAD are considered to have an OCI that may not be susceptible to mitigation. See NAWCAD's Statement of Policy on OCIs, which can be found at the following address: <http://www.NAWCAD.navy.mil/en/About-NAWCAD/compliance-protections/Organizational-Conflicts-Interest.aspx>

The nondisclosure or misrepresentation of an interest creating an OCI may result in the disqualification of a proposer for award, or if such nondisclosure or misrepresentation is discovered after award, the Government may terminate the contract for default, recommend that the contractor be disqualified from subsequent related contracts, or be subject to such other remedial actions as may be permitted or provided by law (see 18 U.S.C. § 1001 and 31 U.S.C. § 3802(a)(2)). Therefore, proposers should interpret the requirements of this section broadly.

An proposer who does not provide support services to NAWCAD or concludes no actual or potential OCI exists shall include the following statement in its proposal: "I [NAME] as an authorized negotiator on behalf of [NAME OF PROPOSER] certify that **NO** actual or potential organizational conflict of interest (OCI) exists under [BAA NUMBER]. I understand that the failure to disclose the existence of actual or potential OCI shall result in the proposer not being considered for award."

An proposer who does provide support services to NAWCAD or is aware circumstances exist that may result in the appearance that it may have an unfair competitive advantage shall submit the following with its proposal:

1. The name of the entity the proposer, its subcontractors, partners, consultants or affiliates supports.
2. The number of the contract, subcontract, or agreement that creates the actual or potential OCI. If NAWCAD did not award the contract or agreement, provide a copy of the document. If NAWCAD awarded the contract, provide the name of the technical point of contact.
3. A description of the actual or potential OCI. The statement must describe in a concise manner all relevant facts concerning any past, present or currently planned interest (financial, contractual, organizational, or otherwise) relating to the work to be performed hereunder and bearing on whether the proposer has a possible organizational conflict of interest with respect to (1) impartial,

technically sound, and unbiased assessments, recommendations, or evaluations, or (2) being given an unfair competitive advantage. If relevant, proposers shall address the personal conflicts of their employees.

4. A Mitigation Plan. Proposers should refer to FAR Subpart 9.5 for policies and procedures for avoiding, neutralizing, or mitigating organizational conflicts of interest.
5. A concluding statement as follows: “I [NAME] as an authorized negotiator on behalf of [NAME OF PROPOSER] certify that I have, to the best of my knowledge and belief, disclosed all actual or potential organizational conflicts of interest (OCI) under [BAA NUMBER]. I understand that the failure to disclose the existence of an actual or potential OCI shall result in the proposer not being considered for award.”

ii. OCI Mitigation Plan Contents. At a minimum, a Mitigation Plan shall:

1. Provide organizational charts showing the proposer’s (and, as appropriate, those of its subcontractors, partners, consultants, and affiliates) structure as it relates to performance under the contract awarded under this BAA and all contracts and agreements relevant to the OCI, highlighting those elements that create the actual or apparent OCI.
2. Demonstrate how the elements that create the actual or apparent OCI will be isolated from the resources that will perform work under the contract awarded under this BAA.
3. Provide information showing whether the organizational elements that will perform work under the contract awarded under this BAA will be geographically or physically separated from the elements that create the actual or apparent OCI.
4. For each contract or agreement relevant to the OCI, describe the process for reassigning personnel, including those belonging to subcontractors, partners, consultants, and affiliates, from one organization to another. Include restrictions that apply.
5. For each contract or agreement relevant to the OCI, describe the any controls, including nondisclosure agreements, that are exercised over the future employment of departing employees as it relates to the OCI.
6. For each contract or agreement relevant to the OCI, describe any OCI training the employees are offered or required to attend, along with the timing (before or after starting work on a government contract), frequency, length, and content of such training.
7. Provide evidence of facts and circumstances that the proposer asserts mitigate or address the concerns related to the actual or potential OCI.

iii. Review.

The Contracting Officer will review a proposer’s certifications, statements, and OCI Mitigation Plan (if applicable) submitted and may require additional relevant information from a proposer. All such information and any other relevant information will be used by the Contracting Officer to determine whether an award

to the proposer may create an OCI. If found to exist, the Government may: (1) impose appropriate conditions which avoid such conflict, (2) disqualify the proposer, (3) determine that it is otherwise in the best interest of the Government to award a contract to the proposer and include appropriate conditions mitigating such conflict in the award, or (4) seek a waiver. If the Contracting Officer determines that an actual or significant potential conflict of interest exists that cannot reasonably be avoided, neutralized or mitigated, the proposer will be ineligible for award. If accepted, the Mitigation Plan shall become part of the contract. Note that the Government will only evaluate OCI mitigation plans for proposals that are determined selectable based on the BAA evaluation criteria and funding availability. A proposer who has refused to disclose the information or make the certification required by this BAA concerning an actual or potential OCI shall be disqualified from consideration for award.

c) Small Business Participation Statement –

If subcontracting opportunities exist, all prime proposers shall submit a Small Business Participation Statement regardless of size in accordance with DFARS 215.304 when receiving a contract for more than the simplified acquisition threshold. All proposers shall provide a statement of the extent of the proposer’s commitment in providing meaningful subcontracting opportunities for small businesses and other concerns subject to socioeconomic considerations through its awards and must agree that small businesses, VOSBs, SDVOSBs, HUBZones, SDBs, and WOSBs concerns will have the maximum practicable opportunity to participate in contract performance consistent with efficient performance.

This assertion will be reviewed to ensure that it supports this policy by providing meaningful subcontracting opportunities. *The statement will not be included in the page count.*

d) Small Business Subcontracting Plan

Large businesses and non-profits (including educational institutions) shall provide a Subcontracting Plan (hereafter known as ‘the Plan’) that contains all elements required by FAR 19.704, FAR 52.219-9 (DEVIATION 2018-O0013) and as supplemented by DFARS 252.219-7003. If a company has a Master Subcontracting Plan, as described in FAR 19.701 or a Comprehensive Subcontracting Plan, as described in DFARS 219.702-70, a copy of the Plan shall also be submitted with the proposal.

The Plan will be reviewed and approved by the PCO prior to contract award. See FAR 19.702, Statutory Requirements, regarding failure of a proposer to negotiate and submit a Subcontracting Plan acceptable to the Contracting Officer. The successful proposer’s Subcontracting Plan will be incorporated into the resultant contract. The proposer shall propose a minimum of the subcontracting goals identified in the table below.

SB Area	Goal %
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Small Business (SB) (Total)	33%
Small Disadvantaged Business (SDB)	5%
Women-Owned SB (WOSB)	5%
HUBZone SB (HUBZone)	3%
Service-Disabled VOSB (SDVOSB)	3%

If proposed goals are below the minimum, then the proposer shall include in the Plan a viable written explanation as to why small businesses are unable to be utilized and what attempts were taken to ensure that small business were given the opportunity to participate in the effort to the maximum extent practicable. *The Plan will not be included in the page count.*

e) Evidence of approved management/cost systems (as applicable)

- i. Property Management System: If GFP/GFE is anticipated, the proposer shall provide evidence of an approved property management system, pursuant to FAR 45.105.
- ii. Cost Accounting Standards: For any proposer who submits a proposal which, if accepted, will result in a CAS-compliant contract, must include a Disclosure Statement as required by 48 CFR 9903.202. Further information regarding CAS certification can be found in FAR 52.230-1.
- iii. Adequate Cost Accounting System: If requesting a cost-type contract, the proposer must provide evidence of an approved accounting system, per FAR 16.103-3(a)(3). If the proposer is requesting a cost-type contract but does not yet have an approved accounting system, proposer shall provide the DCAA Pre-award Accounting System Adequacy Checklist to facilitate DCAA's completion of an SF1408. This form is available at: http://www.dcaa.mil/Content/Documents/Preaward_Survey_of_Propective_Contractor_Accounting_System_Checklist.pdf

B. Application Review Information

1. Recipient Qualifications & Eligibility

a) Responsibility Determination:

- i. Contracts shall be awarded to responsible prospective contractors only. See FAR 9.104-1 for a listing of the general standards against which an applicant will be assessed to determine responsibility.
- ii. Per 13 CFR §125.6(e)(2), compliance with the limitation on subcontracting shall be an element of responsibility. If the proposer is a small business, it shall provide a breakout to demonstrate how the prime contractor will satisfy the limitation on subcontracting for each period of performance. The contractor's

compliance with FAR Clauses 52.219-14 “Limitation on Subcontracting,” 52.219-27 “Notice of Total Service-Disabled Veteran-Owned Business Set Aside,” 52.219-29 “Notice of Set-Aside for, or Sole Source Award to, Economically Disadvantaged Women-Owned Small Business Concerns,” 52.219-30 “Notice of Set-Aside for, or Sole Source Award to, Women-Owned Small Business Concerns,” or 52.219-3 “Notice of Total HUBZone Set Aside or Sole Source Award,” as applicable, will be assessed as an element of responsibility. Cost of contract incurred for personnel includes direct labor cost, overhead that has only direct labor as its base, and the small business’s General and Administrative (G&A) rate multiplied by the labor cost. A proposer’s proposal that fails to meet the limitation on subcontracting during each period of performance shall not be considered for award.

- iii. Per FAR 9.106-1(a), a preaward survey may be required if the Contracting Officer determines that the information on hand or readily available, including information from commercial sources, is not sufficient to make a determination regarding responsibility. proposers are expected to cooperate in the conduct of a preaward survey if such survey is deemed necessary.
 - iv. Applicants may be requested to provide information subsequent to proposal submission to assist the Contracting Officer in making a determination of responsibility.
- b) System for Award Management (SAM): All proposers must be registered in SAM unless exempt per FAR 4.1102. FAR 52.204-7 System for Award Management and FAR 52.204-13 System for Award Management Maintenance are incorporated into this BAA, and FAR 52.204-13 will be incorporated in all awards.

Note that new registrations can take an average of 7-10 business days to process.

- c) Employment Eligibility Verification (E-verify): As per FAR 22.1802, recipients of FAR-based procurement contracts must enroll as Federal Contractors in E-verify and use E-verify to verify employment eligibility of all employees assigned to the award. All resultant contracts from this solicitation will include FAR 52.222-54, “Employment Eligibility Verification.”
- d) Federal Awardee Performance and Integrity Information System (FAPIS) will be checked prior to making an award. The web address is:

<https://www.fapiis.gov/fapiis/index.action>

The applicant representing the entity may comment in this system on any information about the entity that a federal government official entered. The information in FAPIS will be used in making a judgment about the entity’s integrity, business ethics, and record of performance under Federal awards that may affect the official’s determination that the applicant is qualified to receive an award.

- e) Wide Area Work Flow (WAWF): Unless using another means of invoicing, performers will be required to submit invoices for payment directly at <https://wawf.eb.mil>. If applicable, WAWF registration is required prior to any award under this solicitation.

C. FAR / DFARS Provisions/Clauses:

1. Anticipated Terms and Conditions

For purposes of illustration and not of limitation, the following provisions and clauses may be applicable to NAWCAD contracts:

Number	Provision/Clause
52.202-1	Definitions
52.204-2	Security Requirements
52.204-7	System for Award Management
52.204-13	System for Award Management Maintenance
52.209-9	Updates of Publicly Available Information Regarding Responsibility Matters
52.215-16	Facilities Capital Cost of Money
52.215-20	Requirements for Certified Cost or Pricing Data or Information Other Than Certified Cost or Pricing Data
52.215-23	Limitations on Pass Through Charges
52.216-1	Type of Contract
52.216-7	Allowable Cost and Payment
52.217-5	Evaluation of Options
52.217-9	Option to Extend the Term of the Contract
52.219-9	Small Business Subcontracting Plan
52.219-14	Limitations on Subcontracting
52.222-26	Equal Opportunity
52.222-50	Combating Trafficking in Persons
52.223-6	Drug-Free Workplace
52.228-5	Insurance – Work on A Government Installation
52.228-7	Insurance – Liability to Third Persons
52.232-20	Limitation of Cost
52.232-22	Limitation of Funds
52.233-1	Disputes
52.242-15	Stop-Work Order
52.244-2	Subcontracts
52.245-1	Government Property
52.246-7	Inspection of Research and Development – Fixed Price

52.246-8	Inspection of Research and Development – Cost Reimbursement
52.246-9	Inspection of Research and Development (Short Form)
52.246-16	Responsibility for Supplies
52.249-6	Termination (Cost Reimbursement)
52.252-1	Solicitation Provisions Incorporated by Reference
52.252-2	Clauses Incorporated by Reference
252.203-7005	Representation Relating to Compensation of Former DoD Officials
252.204-7000	Disclosure of Information
252.204-7004	Alternate A, System for Award Management
252.204-7008	Compliance with Safeguarding Covered Defense Information Controls
252.204-7012	Safeguarding Covered Defense Information and Cyber Incident Reporting
252.227-7013	Rights in Technical Data – Noncommercial Items
252.227-7014	Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation
252.227-7015	Technical Data – Commercial Items
252.227-7016	Rights in Bid or Proposal Information
252.232-7006	Wide Area Workflow Payment Instructions
252.235-7002	Animal Welfare
252.235-7004	Protection of Human Subjects
252.235-7011	Final Scientific or Technical Report
252.242-7005	Contractor Business Systems
252.242-7006	Accounting System Administration
252.244-7001	Contractor Purchasing System Administration
252.246-7000	Material Inspection and Receiving Report
5252.204-9505	System Authorization Access Request Navy (SAAR-N) Requirements for Information Technology (IT)
5252.209-9510	Organizational Conflicts of Interest (Services)

2. Additional Notes Regarding Terms and Conditions:

a. Electronic and Information Technology

All electronic and information technology acquired through this solicitation must satisfy the accessibility requirements of Section 508 of the Rehabilitation Act (29 U.S.C 794d) and FAR 39.2. Each project involving the creation or inclusion of electronic and information technology must ensure that: (1) Federal employees with disabilities will have

access to and use of information that is comparable to the access and use by Federal employees who are not individuals with disabilities; and (2) members of the public with disabilities seeking information or services from NAWCAD will have access to and use of information and data that is comparable to the access and use of information and data by members of the public who are not individuals with disabilities.

b. Production and Testing of Prototypes

NAWCAD may modify a contract awarded under this BAA to add a contract line item or contract option for the provision of advanced component development or for the delivery of initial or additional prototype units. However, such a contract addition shall be subject to the limitations contained in Section 819 of the National Defense Authorization Act (NDAA) for Fiscal Year 2010, as modified in Section 811 of the NDAA for Fiscal Year 2015.

APPENDIX 3 - REQUIREMENTS APPLICABLE TO OTHER TRANSACTION AGREEMENTS

TO BE INCORPORATED AT A FUTURE DATE VIA AMENDMENT.