(U) NAVY TENCAP FY-20 PROJECT SOLICITATION GUIDELINES

I. (U) Purpose:

(U) The purpose of these guidelines are to shape Government and Industry initiatives for the FY-20 Navy Tactical Exploitation of National Capabilities (TENCAP) Project Solicitation process. Navy TENCAP's mission is to test cutting-edge prototypes or new innovative concepts to meet tactical warfighting gaps for the Fleet by rapidly leveraging and exploiting National Reconnaissance Office (NRO) Overhead Systems (NOS) (also referred to as National Technical Means (NTM)) and the Intelligence Community (IC) Enterprise. Navy TENCAP invests Military Intelligence Program (MIP) and additional Navy resources to accomplish this mission, typically through mature software and hardware technologies that are prototyped, demonstrated and integrated within 12-24 months of project start. Candidate initiatives will be selected for investment based on their ability to meet criteria outlined in paragraph VI.

(U) This announcement is issued solely for information and planning purposes and does not constitute a Request for Proposal (RFP) or obligation to issue an RFP in the future. Responses in any form are not offers, and this announcement does not commit the Government to contract for any supplies or services whatsoever. Respondents are advised that the Government will not pay for any information or administrative costs incurred by any interested party in response to this solicitation. All costs associated with responding to this solicitation are solely at the interested party's expense. Not responding to this solicitation, in and of itself, does not preclude participation in any future solicitation.

II. (U) Navy TENCAP Overview and Themes:

(U) In 1977, the Joint Appropriations Report from Congress directed the establishment of the Navy TENCAP program and chartered it to accomplish the following objectives:

- Improve procedures by which national systems products are made available to tactical forces
- Develop new methods for processing national system data into tactically useful information
- Formulate new concepts for using existing national systems in support of tactical operations, and conduct tests and demonstrations, under field conditions, to assess the effectiveness of these concepts
- Prepare tactical impact statements to influence the design of future national systems to assure the needs of tactical users receive appropriate priority

(U) To accomplish these objectives and rapidly bring needed capabilities to the Fleet, Navy TENCAP is focusing its funding on project initiatives that support areas of development and improvement to the following capabilities:

- Tailored Tactical Decision Aids (TDAs) that display national collections and other relevant Common Operational Picture (COP) data to support decisions
- An adaptive data flow concept that recognizes today's Commanders' need to pass relevant national collections to a variety of allies and mission partners
- Tools to augment the collection management process to suggest the best collection solutions among national and theater assets to meet dynamic needs
- Data management augmentation to assist analysts in identifying patterns in national and other collected intelligence in order to highlight abnormalities

III. (U) Navy TENCAP Fleet Requirements Process:

(U) Navy TENCAP Fleet Requirements are reviewed on a yearly cycle, based on the Navy's Program Objective Memorandum (POM) and Warfare Improvement Program (WIP) cycles, and typically fall within the three pillars of Information Warfare (IW): Assured Command and Control (AC2), Battlespace Awareness (BA) and Integrated Fires (IF).

(U) The requirements development process begins with a thorough review of Fleet Integrated Prioritized Capabilities Lists (IPCL), the Fleet Integrated Priorities Letter, Post Deployment Briefs (PDB), Navy Urgent Operational Needs (UON), Joint Urgent Operational Needs (JUON), and various IW-related requirements documents (i.e. Navy Concept for Distributed Maritime Operations, Maritime Surveillance Requirements for Space-Based Collection Systems, etc.). In addition, other Navy strategies such as the Electromagnetic Maneuver Warfare (EMW), Distributed Lethality (DL), and Navy Integrated Fire Control-Counter Air (NIFC-CA) concepts and DoD and IC efforts such as the Intelligence Community Information Technology Enterprise (ICITE) and other shaping documents are considered. Fleet requirements that fall within the three pillars of IW and also address Navy TENCAP objectives and focus areas listed in Paragraph II are then captured into a Consolidated Navy TENCAP Fleet Requirements List for further consideration and refinement.

(U) Requirements are then augmented and further validated by a series of Fleet engagements, to include:

- (U) Navy TENCAP representation at the Fleet WIP conference series (i.e. IW WIP, Operational Level of War (OLW)/Maritime Operations Center (MOC) Winter Workshop, Undersea Warfare Reconnaissance (USWRECON) WIP, etc.).
- (U) Fleet Headquarter/MOC on-site visits and meetings with appropriate requirements leads.
- (U) Coordination with Navy stakeholders (i.e. Navy Information Forces (NAVIFOR), US Fleet Forces (USFF), Commander Pacific Fleet (CPF), Information Warfare Development Center (IWDC), Navy Warfare Development Command (NWDC), Undersea Warfare Development Command (UWDC), etc.).

(U) Once requirements are reviewed and vetted, they are included as an attachment to the annual Navy TENCAP Project Solicitation as Appendix A. All FY-20 project initiative submissions must map to at least one Navy TENCAP Fleet Requirement in Appendix A.

(U) Documentation of the FY-20 Navy TENCAP Fleet Requirements can be found on the Navy TENCAP SharePoint (JWICS) site at this link:

https://intelshare.intelink.ic.gov/sites/navytencap/Current_Requirements/Forms/AllItems.aspx

(U) A detailed list of specific FY-20 requirements and concept ideas received by Navy TENCAP is provided in Appendix A. Innovative ideas, as well as research and development which will enable new or extended capabilities but may not fall directly into these areas, are also welcome. Questions regarding Navy TENCAP Focus Areas may be directed to the points of contact listed at the end of this solicitation.

IV. (U) Navy TENCAP Focus Areas for FY-20

(U) Navy TENCAP Focus Areas will vary each FY based on emerging threats and Fleet priorities, and are therefore derived from a combination of Navy TENCAP objectives/themes and Fleet Requirements described above. For each Focus Area, we are looking for technologies or concept leaps with the biggest impact to how we can address critical warfighter gaps. This can include new tools or new concepts of existing tools. For FY-20, Navy TENCAP Focus Areas are as follows:

- (U) Tactical Decision Aids (TDA): COPs are numerous but the resounding message from the Fleet is they aren't meeting the need, as each command has unique needs for the data. This focus area entails leveraging Artificial Intelligence (AI), to include machine learning (ML), to pull the right intelligence data into a command-tailored format that informs decisions and allows the tactical decision maker to take action, recognizing that each command has enduring but different decisions.
    - For example, technologies that support automated multi-mission planning, assessment, situational awareness, and course of action (COA) recommendation; a capability to display C-C4ISR capabilities, both active and passive, offensive and defensive, to permit the Commander to make decisions on coordinated IW actions; automated decision aids to identify and prioritize afloat vulnerabilities to adversary space/terrestrial ISR networks.

- (U) Object/Pattern Recognition: The adversary is making deliberate decisions based on input, but those indicators may or may not be noticed by the human analyst. The Fleet needs technologies that support pattern recognition and anomaly detection from collected data. This focus area entails leveraging AI/ML capabilities to assist analysts at various echelons to assess data, learn based on observed situations, and identify indicators or micro-indicators of anomalous behavior in order to alert the tactical warfighter and inform decision making.
    - For example, automated capabilities that track adversary movements from undersea, surface, or air; recognize patterns; measure the battlespace; predict movements based on situational awareness; and then alert the tactical warfighter to consider action.

- (U) Augmentation of Collection Management (CM): The variety of sensors and associated processors challenges informed decision procedures executed solely by humans. This focus area entails employing AI to augment CM decisions and task the appropriate combination of National, Theater, and Tactical sensors in order to provide more timely, accurate, and detailed information to the decision maker.
    - For example, technologies that provide full spectrum SIGINT/GEOINT collection capabilities; or an automated collection solution recommendation tool.

- (U) Adaptive Data Flow: Getting information to and being able to obtain a decision-quality picture for the tactical decision makers in various C2D2E scenarios through active management of TACSIT, data flow paths, information classification, and releasability to allied mission partners.
    - For example, technologies to support ability to show multiple alliances decision-quality data at speed, to make dynamic changes to information flow into TDA.

V. (U) Navy TENCAP Submission Guidance and Selection Process for FY-20

(U) Initiatives will be submitted for evaluation in the form of a white paper (not to exceed two pages) and a Navy TENCAP Briefing Quad. Templates for the white paper and quad chart will be made available on the Navy TENCAP Intelink site (see below) or by email upon request.

- (U) White Paper: An executive overview describing the objective of the project and the Navy TENCAP Fleet Requirement or Focus Area being addressed. Include unclassified project name; originator; point of contact name, phone, and email information; project overview; technical objectives; current Technology Readiness Level (TRL) as defined in Section 2.5 of the Department of Defense Technology Readiness Assessment Guidance of April 2011; the Information Warfare Pillar and Core Capability being addressed; the transition target, transition

organization contact information, and transition coordination to date; and funding requested (if multi-year funding desired, provide details of out-year funding). This document must be submitted in Microsoft Word format.

- (U) Briefing "Quad" in format given: Description, Requirement and Deliverables, Overview Graphic and Contact Details (to include project leads and transition organization POCs). This document must be submitted in Microsoft PowerPoint format.

(U) White paper and Briefing Quad may be unclassified or classified (up to and including TS//SCI or Special Access Program/Reserve level). Classified documents must include paragraph markings, overall page classification, and other elements mandated by Executive Order 13526 - Classified National Security Information; Intelligence Community Directive 710 - Classification Management and Control Markings System; and the Intelligence Community Markings System Register and Manual. All acronyms should be spelled out at first use.

(U) White papers and Quads will be reviewed by Navy TENCAP government staff and System Engineering and Technical Assistance (SETA) support Subject Matter Experts (SME), Fleet representatives, and OPNAV stakeholders, who will rank the initiatives based upon the evaluation criteria outlined below. Highly technical proposals should be well explained so non-experts in particular areas can grasp the concept and technical risk. Selected vendors will then be invited to brief their initiatives to Navy TENCAP and appropriate stakeholders. All organizations will be informed whether or not they are invited to brief.

(U) If invited to brief, each organization will be allowed 20 minutes to brief their initiative, followed by a ten-minute question and answer period. Once all briefs have been received, another round of stakeholder review will be conducted, from which final project selections will be recommended to OPNAV N2N6 for approval.

(U) The Navy TENCAP budget is modest. Recent history has shown that typical projects selected for Navy TENCAP-only funded efforts are under $1M; however, organizations should not be limited by this cost concern, as Navy TENCAP will give equal consideration to any technologies over $1M that will enhance Fleet capabilities or close a critical capability gap. Additionally, Navy TENCAP can, and will, seek additional funding if a project merits attention. Organizations are highly encouraged to provide phasing or partial implementation options and recommend funding partners to increase options and flexibility for selection.

VI. (U) Selection Criteria.

(U) Proposed initiatives will be judged according to the following criteria:

- (U) Navy TENCAP Mission – Does the initiative have a direct link to Navy TENCAP's core mission? Navy TENCAP is congressionally mandated to focus on the exploitation of NOS or National/Intelligence Community capabilities, so projects should show connection to these focus areas in Paragraph II. This can be a very clear tie, such as to NRO space systems or ground architectures, or it can be related to less obvious connections, such as big data analytics, software or hardware capabilities developed for IC agencies, Joint capabilities that are leveraged by IC, systems that tip/cue National assets, etc. If there are any doubts as to the connection for a given project, vendors are highly encouraged to discuss their concept with Navy TENCAP prior to final submission.

- (U) Navy Requirements/TENCAP Focus Areas – Does the proposed initiative align with at least one of the formal Navy Fleet requirements or one of the Navy TENCAP focus areas? Each initiative must clearly map to a Navy TENCAP Fleet Requirement or focus area and detail how it solves a problem or fills a specific gap.

- (U) Transition Plan – Navy TENCAP evaluators and stakeholders will determine the suitability of the proposed transition plan, to include the level of coordination conducted to date. By definition, to effectively transition, a capability must be developed, delivered, tested and incorporated into one or more of the following:

    - An existing Program of Record (PoR), or accepted as a new PoR by the receiving organization and is part of their POM/sustainment effort
    - An operational baseline system
    - A current commercial application
    - Used in or incorporated into an operational environment
    - Delivered to an appropriate testing and evaluation authority

    (U) As a compliance check, the identified Transition Organization POC will be contacted to verify they are aware of the proposal and are capable of assisting in the transition of the deliverable into operational use at the end of the project, and of committing the appropriate resources to do so.

- (U) Past Performance – Past performance is a central element of the Navy TENCAP process when evaluating companies and proposals. At a minimum, each proposal should include examples of what similar/related work a company has performed, organization the work was performed for, POR/IC baseline the work transitioned to, and other relative experience/projects that would highlight past and/or current performance.

- (U) Technical Maturity – Does the proposed initiative have sufficient technical maturity to ensure reasonable likelihood of success?

- (U) Risk Assessment – Are there cost, schedule, and/or technology risks which could jeopardize successful completion and transition of the capability?

- (U) Schedule – Does the proposed schedule adequately identify major project milestones sufficient to ensure a reasonable likelihood of execution?

- (U) Cost Estimate and Value – Does the cost estimate articulate detail in the work break-down sufficient to ensure a reasonable likelihood for completion? Is the requirement met by the project worth the cost?

- (U) Execution – Can the initiative be completed on time and within budget? Is there an acceptable path for contract execution and funds transfer? Does the team assembled have all the pre-requisites (experience, clearances, spaces, etc.) to complete the project?

VII. (U) Navy TENCAP initiative selection timeline for FY-20

(U) Table 1 – FY-20 Schedule

Due Date	**Required Submission**

1 May 2019	Solicitation Release
31 May 2019	Deadline for submitting FY-20 project initiatives (White paper and Briefing)
24 June 2019	Navy TENCAP issues invitation to brief for Round 1 selected initiatives
12 July 2019	Round 1 briefing submissions due to Navy TENCAP
16-18 July 2019	Round 1 briefings presented by invited organizations
9 August 2019	Notification of selected FY-20 Initiatives and request Statement of Work (SOW) and Spend Plan
6 September 2019	Selected initiatives' SOW and Spend Plans due

(U) Initiative selection timeline is UNCLASSIFIED and subject to change.

(U) The yearly submission schedule is not intended to preclude submission of novel or innovative ideas during the remainder of the year. Vendors are encouraged to communicate additional ideas to Navy TENCAP personnel for consideration at any time.

VIII. (U) Navy TENCAP contact information for FY-20

(U) Submission documents should be sent to:

- Mr. John "Russ" Fitzgerald — Solicitation Coordinator
  - (Phone) 703-695-7335
  - (Secure) 984-7738
  - (NIPRNET) john.r.fitzgerald@navy.mil
  - (SIPRNET) john.r.fitzgerald@navy.smil.mil
  - (JWICS) fitzgej@nmic.ic.gov

- Mr. Randy Jensen SETA Support
  - (Phone) 703-695-7367
  - (Secure) 984-5230
  - (NIPRNET) randy.l.jensen1.ctr@navy.mil
  - (SIPRNET) randy.l.jensen1.ctr@navy.smil.mil
  - (JWICS) jensenr@nmic.ic.gov

- (U) For Special Access/Reserve proposals, please contact CAPT Seth Walters for confirmation of access and submission procedures.

(U) Other Navy TENCAP Points of Contact are:

- CAPT Seth Walters — Director, Navy TENCAP
  703-695-7554 — (Secure) 984-5264
  seth.walters@navy.mil — walters@nmic.ic.gov

- Mr. Welmon Pippin — Technical Director, Navy TENCAP
  703-695-7293 — (Secure) 984-7734
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- Mr. Russ Fitzgerald — Fleet Requirements Manager
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- Mr. Randy Jensen
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- Ms. Cassandra Scott
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  (Secure) 984-7746

(U) Navy TENCAP SharePoint Site: https://intelshare.intelink.ic.gov/sites/navytencap/default.aspx

(U) Template Location: FY-20 Project Solicitation, Project Submission Templates:

https://intelshare.intelink.ic.gov/sites/navytencap/Radiant%20Project%20Solicitation/Forms/AllItems.aspx