

# **STILETTO MARITIME DEMONSTRATION PROGRAM**

**Request for Information CD18-1**



**Maritime Vessel Disablement (MVD)**

**Hosted by the Stiletto Maritime Demonstration Program (MDP)**

**Distribution Statement A: Approved for public release; distribution is unlimited**

## 1. Purpose

The purpose of this Request for Information (RFI) is to gather information on technologies and systems for disabling, stopping, or slowing maritime vessels using non-lethal means. Non-lethal means includes any method of affecting a target craft through any system or technology that hampers, distracts, prevents, or stops the craft's ability to continue on its intended course and speed and does not cause death to the occupants.

This RFI requests information on systems designed to disable, stop, or slow small, medium, and/or large waterborne vessels. Small vessels include craft such as jet skis and speed boats, generally less than 20 meters in length. Medium craft range between 20 and 50 meters in length and large craft are generally greater than 50 meters.

This RFI is for information gathering purposes only in preparation for a potential capability demonstration that will focus on Maritime Vessel Disablement (MVD). Based on the responses to this RFI, a potential demonstration may be conducted by the Stiletto Maritime Demonstration Program (SMDP) in early Fiscal Year (FY) 18, location to be determined (but most likely in the Norfolk, VA area). If the decision is made to conduct a demonstration, a Sources Sought for CD18-1 will be published on FEDBIZOPS at a later date announcing the actual demonstration.

**Responses to this RFI are requested no later than 31 March 2017.**

## 2. Background

A non-lethal and scalable system to stop and/or disable maritime vessels, large or small, could increase tactical options for mission areas ranging from counter-terrorism and counter-proliferation to anti-piracy, counter-narcotics, and irregular warfare.

Several systems ranging from entanglement to directed energy and occlusion have been tested and demonstrated. Additionally, there are currently other systems in different stages of development, from very low Technology Readiness Level (TRL) to high TRL. This RFI is an opportunity to compile information on all systems, regardless of TRL, and determine potential applicability to Governmental objectives.

## 3. MVD Description

The Government requests that responses to this RFI provide the following:

- 1) Describe the MVD system technology (e.g. entanglement, directed energy, occlusion, other); this description should include the technique(s) for deploying the technology against a target and the intended impact.
- 2) Describe the primary materials/components that comprise the system.

- 3) Define the designed/intended impact and end effect of the MVD system (i.e. slow and/or stop a vessel of a given size within a certain timeframe or distance, apply to a static vessel/propulsion system to prevent mobility from a static state, create distraction and/or deterrent in efforts to hinder operations/mobility).
- 4) Is the intended impact and end effect of this technology likely to cause permanent damage to the target and/or harm personnel?
- 5) What is the technology's TRL?
- 6) Describe recent or past utilization/operational use, if applicable.
- 7) Is the technology scalable (i.e. can it be readily tailored/sized to suit various waterborne targets in terms of hulls/shapes and sizes).
- 8) Is this technology/product effective against various propulsion systems (i.e. inboard/outboard propeller systems, water-jet/jet-drive systems, etc.)?
- 9) What types of vessel system(s)/operation(s) does this technology/product target (e.g. external propulsion systems/components, internal machinery equipment and/or auxiliary sub-systems, C2/electrical/electronic systems)?
- 10) At what distances/ranges could this technology/product be applied and have predictably effective results for a given target type/size?
- 11) Is this technology/product intended for single use only, or is it reusable for follow-on applications?

#### 4. Submission Instructions

Responses shall be submitted to the SMDP electronically, prior to 31 March 2017. **All responses shall be submitted via email to Stiletto@navy.mil.** Responses shall be clearly marked with "RFI CD18-1."

- 1) If any assistance is required, please contact Ki Pak (ki.pak@navy.mil).
- 2) Multiple responses addressing different MVD Systems may be submitted.
- 3) **DO NOT SUBMIT CLASSIFIED INFORMATION.**
- 4) Provide any additional information and references that will assist in understanding the response.

## **5. Proposal Information, Technical Data, and Other Information**

Naval Surface Warfare Center, Carderock Division (NSWCCD) will disclose respondents' information only to authorized Government and non-Government third-parties for purposes of evaluation. Information submitted in response to this RFI constitutes the written consent to such disclosure. Non-Government third-parties will be required by the Government to sign a certificate of non-disclosure prior to their gaining access to any respondent's information.

All information received in response to this RFI that is marked "Proprietary" will be handled accordingly. Responses will not be returned. Respondents are solely responsible for their expenses associated with responding to this RFI. NSWCCD reserves the right to accept, reject, or use without obligation or compensation, any information submitted in response to this RFI that is not proprietary. The Government will not use proprietary information submitted from any individual respondent to establish future capability requirements.

The Government does not commit to providing a response to any comment or question.

## **6. Additional Information**

The information collected in the responses will be evaluated by designated stakeholders that may include representatives from Office of Secretary of Defense (OSD), Department of Homeland Security (DHS), and various operational commands. Responses must include all of the information requested in section four.

## **7. Use of Information**

The purpose of this notice is to gain information leading to collaboration for development of technology capabilities. All proprietary information contained in the response shall be clearly marked. Any clearly marked proprietary information contained in response to this request will be properly protected from any unauthorized disclosure.

## **8. Special Notice**

Respondents' attention is directed to the fact that Federally Funded Research and Development Centers (FFRDCs) or contractor consultant/advisors to the Government will review and provide support during evaluation of responses. When appropriate, non-Government advisors may be used to objectively review a particular functional area and provide comments and recommendations to the Government. All advisors shall comply with procurement integrity laws and shall sign non-disclosures and rules of conduct/conflict of interest statements. The Government shall take into consideration requirements for avoiding conflicts of interest and ensure advisors comply with safeguarding proprietary data. Submission in response to this RFI constitutes approval to release submitted information and documents to Government support contractors.