
From: Hunstad, Mary P CIV NAVSEA HQ, SEA 05
To: Cosgrove, Michael P. CIV NASPATUXENTRIVERMD 4.3.5.1 Aircraft Fire Protection; Kovaleski, Kevin J. CIV NAVAIR PAX; Berchtold, Brian D CIV NAVSEA HQ, NAVSEA 05
CC: Berkoski, Daniel T CIV NAVSEA, SEA 05; Fletcher, Steven G CIV NAVSEA HQ, SEA 05; John Farley; Tarver, Larry E LCDR PMA251, PMA 251; Davidson, Ross A CIV
Sent: 9/2/2015 2:52:59 PM
Subject: RE: WP FY17 SON topic 15
Attachments: Phase I Addendum Report_AFFF PFOS and PFOA_Draft_6Apr2015.pdf

Mike -

I would not have NAVAIR numbers but there is a draft study by OSD (attached) that has some of that info. Navy (including NAVAIR) and Air Force both had meetings with OSD on this draft as it needed some work yet. So you really can't assume these numbers are final.

This is the first I heard though that someone was proposing going after SERDP funding.

Mary

v/r
Mary Hunstad
TWH - Fire Protection Systems
And Material Fire Performance
SEA 05P5
WNYD bldg. 197, 3W-2827
202-781-3632

-----Original Message-----

From: Cosgrove, Michael P. CIV NASPATUXENTRIVERMD 4.3.5.1 Aircraft Fire Protection
Sent: Wednesday, September 02, 2015 8:42 AM
To: Kovaleski, Kevin J. CIV NAVAIR PAX; Berchtold, Brian D CIV NAVSEA HQ, NAVSEA 05; Hunstad, Mary P CIV NAVSEA HQ, SEA 05
Subject: RE: WP FY17 SON topic 15

Mary,

Can you assist with Kevin's request below for AFFF usage numbers?

v/r,

Mike Cosgrove
Naval Air Systems Command
AIR-4.3.5.1 Thermal Systems Branch
Fire Protection Team Lead
BLDG 2187 Suite 3280-D4
Patuxent River, MD 20670
301-995 3993
301-342-0316 (fax)
michael.cosgrove@navy.mil

-----Original Message-----

From: Kovaleski, Kevin J. CIV NAVAIR PAX
Sent: Monday, August 31, 2015 10:52 AM
To: Cosgrove, Michael P. CIV NASPATUXENTRIVERMD 4.3.5.1 Aircraft Fire Protection; Berchtold, Brian D CIV NAVSEA HQ, NAVSEA 05
Subject: RE: WP FY17 SON topic 15

Any updates here? SERDP is looking to rank SONs this week and any usage information would be quite helpful for a higher ranking. Thank you.

V/R,
Kevin

-----Original Message-----

US00005472

From: Cosgrove, Michael P. CIV NASPATUXENTRIVERMD 4.3.5.1 Aircraft Fire Protection
Sent: Wednesday, August 19, 2015 3:49 PM
To: Berchtold, Brian D CIV NAVSEA HQ, NAVSEA 05
Cc: Kovaleski, Kevin J. CIV NAVAIR PAX
Subject: RE: WP FY17 SON topic 15

Brian,

Can you assist with Kevin's request below for AFFF usage?

v/r,

Mike Cosgrove
Naval Air Systems Command
AIR-4.3.5.1 Thermal Systems Branch
Fire Protection Team Lead
BLDG 2187 Suite 3280-D4
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-----Original Message-----

From: Kovaleski, Kevin J. CIV NAVAIR PAX
Sent: Wednesday, August 19, 2015 3:40 PM
To: Cosgrove, Michael P. CIV NASPATUXENTRIVERMD 4.3.5.1 Aircraft Fire Protection
Subject: RE: WP FY17 SON topic 15

Mike,

SERDP is interested in this topic as a statement of need (SON) for exploratory development in FY 17. This type of SON is called a "SEED", and is a means for researchers to test a proof of concept during an effort of approximately one year. If it is successful, the researcher is invited to submit a full SERDP proposal to continue the work.

Is it possible to get AFFF usage numbers for NAVAIR, even if only a SWAG? Putting numbers to the usage will show the size of the problem and why viable alternatives are needed. I have a meeting on SON development on 31 August so any help by then would be appreciated. Again, thank you for your time and efforts.

V/R,
Kevin

-----Original Message-----

From: Kovaleski, Kevin J. CIV NAVAIR PAX
Sent: Friday, August 14, 2015 9:04 AM
To: Thoman, Steven J CIV NAVAIR AIR-4.3.5; Cosgrove, Michael P. CIV NASPATUXENTRIVERMD 4.3.5.1 Aircraft Fire Protection; Pok, Michele C. CIV NAVAIR AIR 4.3.4.2
Subject: RE: WP FY17 SON topic 15

Thanks Steve and Mike. I have a telcon with the SERDP people next week to get the ball rolling on this need. For this telcon, just knowing it's a need should suffice. If it goes forward I will contact Mike and our ESOH people for more information as the official SON develops.

Kevin

-----Original Message-----

From: Thoman, Steven J CIV NAVAIR AIR-4.3.5
Sent: Tuesday, August 11, 2015 10:11 AM
To: Kovaleski, Kevin J. CIV NAVAIR PAX
Cc: Cosgrove, Michael P. CIV NASPATUXENTRIVERMD 4.3.5.1 Aircraft Fire Protection
Subject: RE: WP FY17 SON topic 15

Kevin -

Thanks for considering us, Kevin. I consulted with Mike Cosgrove, our principal Fire Protection SME team lead, on this subject. This is an excellent opportunity to increase the safety of the warfighter. Personnel are exposed to AFFF intentionally (during shipboard firefighting) and unintentionally (multiple instances of inadvertent hanger system discharges). Endocrine disruptors are increasingly subject to regulation, so having an alternative will allow us to be prepared so we're not scrambling like we were with

a halon replacement. Your folks in 4.3.4.2 Environmental may have more insight on the current regulatory outlook.

Please contact Mike if you need additional information. Thanks!

-Steve

-----Original Message-----

From: Kovaleski, Kevin J. CIV NAVAIR PAX
Sent: Monday, August 10, 2015 4:11 PM
To: Thoman, Steven J CIV NAVAIR AIR-4.3.5
Subject: FW: WP FY17 SON topic 15

Steve,

Below is a potential statement of need (SON) for FY 17 for the Strategic Environmental Research and Development Program (SERDP). SERDP is run out of OSD and is a 6.1 to 6.3 funding source. Any R&D proposed to SERDP must address a SON. The topic was put forward by the Army.

Is fluorine-free AFFF a need for NAVAIR, and if so, would you know the magnitude of the problem? I can champion the need if necessary, but it would have to be high priority since SERDP's budget only can support 3-4 SONs per year. Thank you for any assistance you can provide.

V/R,
Kevin

-----Original Message-----

From: Miller, Lisa [mailto:lisamiller@hgl.com]
Sent: Monday, August 10, 2015 3:20 PM
To: 'hedwig.e.maupin.civ@mail.mil'; marc.s.pepi.civ@mail.mil; Hertel, William M III CIV NSWCCD W. Bethesda, 6340; Kovaleski, Kevin J. CIV NAVAIR PAX
Cc: Nissan, Robin; Barlow, Sarah; Koroleva, Natalia
Subject: WP FY17 SON topic 15

Hi All,

The language below was suggested as a potential SON topic. We would appreciate your input on whether there is an actual need for research in this area, and if so, what the magnitude of this problem currently is for your service area. Please work together to update the language below.

15. Fluorine-Free Aqueous Film-forming Foams

Aqueous film-forming foam (AFFF) is a water-based firefighting foam used in the military for fire suppression in ships, shore fixed systems, aircraft hangers and for emergency responses and fire fighting training exercises to extinguish liquid fuel fires. Until recently, AFFF formulations contained long-chain perfluorinated compounds (PFCs) that either used perfluorooctanoic acid (PFOA) or perfluorooctanesulfonic acid (PFOS). PFCs have been found to be endocrine disruptors and have adverse effects on development, immune system, and multiple organ systems. They are very stable and persistent in the environment, highly soluble and have been detected in the environment worldwide and in the blood of the general U.S. population. The Air Force and Navy are the primary users for AFFF, with an estimated current stockpile of 423K and 97K gallons of AFFF, respectively. Multiple DoD installations have detected PFCs at 3-4 orders of magnitude greater than the current EPA health advisory. Worldwide regulation and effective bans of PFOA/PFOS led manufacturers to support a voluntary replacement program for the long-chain fluorsurfactants. New formulations are made with telomer-based surfactants (six carbons or less) that have been shown to more readily breakdown in the environment but may still have long term environmental impacts (e.g., persistence) or even contain PFCs as impurities or degrade to produce fluoroalkyl compounds of equal environmental concern. At this time, AFFFs used by the military must contain fluorinated surfactants (and other compounds) per MIL-F-24385F. Industry has identified potential fluorine-free alternative foams; however, none of these technologies meet the performance required for military applications. The DoD will need to identify, test and field fluorine-free, more environmentally sustainable AFFFs for fire-suppression operations that meet the performance requirements defined in MIL-F-24385F.

We are planning to hold another call on Wednesday August 19th, so please provide us with these updates by COB Tuesday, August 18th.

Thanks,

Lisa

Lisa Miller

HydroGeoLogic, Inc.

US00005474

SERDP/ESTCP Support Office

Weapons Systems & Platforms

703-326-7816

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