
From: Mach, Richard CIV OASN (EI&E), ODASN (Environment)
To: Hunstad, Mary P CIV NAVSEA HQ, SEA 05; Morrison, Jillian L CIV NAVSEA, SEA 00L; Onyekanne, Chika LT CHINFO, OI-2; Murtha, Veronica E CIV NAVSEA, SEA 00L; John Farley
CC: Mcinnis, Marissa K CIV OASN (EI&E); Rudroff, Jim CIV OASN (EI&E), ODASN Environment; Berkoski, Daniel T CIV NAVSEA, SEA 05; Fletcher, Steven G CIV NAVSEA HQ, SEA 05; Preston, Gregory C CIV NAVFAC HQ, BRAC PMO; Tobin, Stephen D CIV NAVSEA, SEA 00L; Carlson, Margaret M CIV OASN (EI&E), OAGC (EI&E); Phillips, John S
Sent: 11/1/2016 3:17:13 PM
Subject: RE: Questions on prior Navy AFFF studies
Attachments: ATTACH000.eml

This whole request began from the CHINFO request at the bottom of this string.

Chika, where do we stand on your desire for a response? Has this become OBE?

Also, attached are some AF follow-up responses, FYSA.

VR,
Richard

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

From: Hunstad, Mary P CIV NAVSEA HQ, SEA 05
Sent: Tuesday, November 01, 2016 10:59 AM
To: Mach, Richard CIV OASN (EI&E), ODASN (Environment); Morrison, Jillian L CIV NAVSEA, SEA 00L; Onyekanne, Chika LT CHINFO, OI-2; Murtha, Veronica E CIV NAVSEA, SEA 00L; John Farley
Cc: Mcinnis, Marissa K CIV OASN (EI&E); Rudroff, Jim CIV OASN (EI&E), ODASN Environment; Berkoski, Daniel T CIV NAVSEA, SEA 05; Fletcher, Steven G CIV NAVSEA HQ, SEA 05; Preston, Gregory C CIV NAVFAC HQ, BRAC PMO; Tobin, Stephen D CIV NAVSEA, SEA 00L; Carlson, Margaret M CIV OASN (EI&E), OAGC (EI&E); Phillips, John S
Subject: RE: Questions on prior Navy AFFF studies

NRL was contacted by the Colorado Springs Gazette for their story, which prompted the below questions from the Courier Times. NRL did not respond to the Gazette.

I don't know if it's appropriate for me to task NRL to develop responses on these - it probably needs to be via PAO or CHINFO.

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: Hunstad, Mary P CIV NAVSEA HQ, SEA 05
Sent: Friday, October 28, 2016 12:02 PM
To: Mach, Richard CIV OASN (EI&E), ODASN (Environment); Morrison, Jillian L CIV NAVSEA, SEA 00L; Onyekanne, Chika LT CHINFO, OI-2; Murtha, Veronica E CIV NAVSEA, SEA 00L; John Farley
Cc: Mcinnis, Marissa K CIV OASN (EI&E); Rudroff, Jim CIV OASN (EI&E), ODASN Environment; Berkoski, Daniel T CIV NAVSEA, SEA 05; Fletcher, Steven G CIV NAVSEA HQ, SEA 05; Preston, Gregory C CIV NAVFAC HQ, BRAC PMO; Tobin, Stephen D CIV NAVSEA, SEA 00L; Carlson, Margaret M CIV OASN (EI&E), OAGC (EI&E); Phillips, John S
Subject: RE: Questions on prior Navy AFFF studies

We really need to send the questions to NRL. Very likely any work that was done, was done by NRL or someone they contracted with. It's possible NRL already answered similar questions. So I'm including NRL John Farley here.

John - see email thread below and questions from Colorado Gazette. Have these or similar questions come to NRL and if so, how did NRL respond?

Thanks,
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: Mach, Richard CIV OASN (EI&E), ODASN (Environment)
Sent: Friday, October 28, 2016 11:14 AM
To: Morrison, Jillian L CIV NAVSEA, SEA 00L; Hunstad, Mary P CIV NAVSEA HQ, SEA 05; Onyekanne, Chika LT CHINFO, OI-2; Murtha, Veronica E CIV NAVSEA, SEA 00L
Cc: Mcinnis, Marissa K CIV OASN (EI&E); Rudroff, Jim CIV OASN (EI&E), ODASN Environment; Berkoski, Daniel T CIV NAVSEA, SEA 05; Fletcher, Steven G CIV NAVSEA HQ, SEA 05; Preston, Gregory C CIV NAVFAC HQ, BRAC PMO; Tobin, Stephen D CIV NAVSEA, SEA 00L; Carlson, Margaret M CIV OASN (EI&E), OAGC (EI&E)
Subject: RE: Questions on prior Navy AFFF studies

Thanks Jill,

[REDACTED]

VR,
Richard

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

From: Morrison, Jillian L CIV NAVSEA, SEA 00L
Sent: Thursday, October 27, 2016 1:02 PM
To: Hunstad, Mary P CIV NAVSEA HQ, SEA 05; Mach, Richard CIV OASN (EI&E), ODASN (Environment); Onyekanne, Chika LT CHINFO, OI-2; Murtha, Veronica E CIV NAVSEA, SEA 00L
Cc: Mcinnis, Marissa K CIV OASN (EI&E); Rudroff, Jim CIV OASN (EI&E), ODASN Environment; Berkoski, Daniel T CIV NAVSEA, SEA 05; Fletcher, Steven G CIV NAVSEA HQ, SEA 05; Preston, Gregory C CIV NAVFAC HQ, BRAC PMO; Tobin, Stephen D CIV NAVSEA, SEA 00L
Subject: RE: Questions on prior Navy AFFF studies

Mary,

[REDACTED]

V/r
JLM

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

From: Hunstad, Mary P CIV NAVSEA HQ, SEA 05
Sent: Thursday, October 27, 2016 12:52 PM
To: Mach, Richard CIV OASN (EI&E), ODASN (Environment); Onyekanne, Chika LT CHINFO, OI-2; Murtha, Veronica E CIV NAVSEA, SEA 00L
Cc: Mcinnis, Marissa K CIV OASN (EI&E); Rudroff, Jim CIV OASN (EI&E), ODASN Environment; Berkoski, Daniel T CIV NAVSEA, SEA 05; Fletcher, Steven G CIV NAVSEA HQ, SEA 05; Preston, Gregory C CIV NAVFAC HQ, BRAC PMO; Morrison, Jillian L CIV NAVSEA, SEA 00L
Subject: RE: Questions on prior Navy AFFF studies

[REDACTED]

Thanks,
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: Mach, Richard CIV OASN (EI&E), ODASN (Environment)
Sent: Thursday, October 27, 2016 9:01 AM
To: Onyekanne, Chika LT CHINFO, OI-2
Cc: Mcinnis, Marissa K CIV OASN (EI&E); Rudroff, Jim CIV OASN (EI&E), ODASN Environment; Hunstad, Mary P CIV NAVSEA HQ, SEA 05; Berkoski, Daniel T CIV NAVSEA, SEA 05; Fletcher, Steven G CIV NAVSEA HQ, SEA 05; Preston, Gregory C CIV NAVFAC HQ, BRAC PMO
Subject: RE: Questions on prior Navy AFFF studies

Chika,

You can provide a quick response that we are researching answers to his questions, but it is going to take some time to provide him a complete response. I have also attached a similar question that was posed to the AF, which is being redirected to Navy. I have copied our NAVSEA SMEs on AFFF as well as Greg with BRAC. We are going to need NAVSEA to generate the response to the first 3 questions below and the attached from AF redirect. Greg will need to generate the response for question 4 below, which I believe is going to be a simple date of when the local water district notified us of the detections in their wells tested under the UCMR with results above the previous PHA levels.

VR,
Richard

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

From: Onyekanne, Chika LT CHINFO, OI-2
Sent: Wednesday, October 26, 2016 10:59 AM
To: Mach, Richard CIV OASN (EI&E), ODASN (Environment)
Cc: Mcinnis, Marissa K CIV OASN (EI&E)
Subject: Questions on prior Navy AFFF studies

Good morning Richard,

Kyle Bagenstose, the Courier Times reporter covering all things PFCs, has some questions (below) that stem from the recent Colorado Gazette story on the Air Force AFFF studies: <http://gazette.com/toxic-legacy-air-force-studies-dating-back-decades-show-danger-of-foam-that-contaminated-local-water/article/1588446>.

The story references an alleged 1997 study the Navy conducted, attempting to use bacteria to break down ingredients of firefighting foams.

Do we have the information Kyle is seeking? His deadline passed but he would like a response.

V/r,
Chika

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1. Have past or present Navy personnel conducted any toxicological, or generally health studies, on firefighting foam or its various ingredients? If so please provide as much detail as possible on the number of studies, their topics and findings, and the dates which they occurred.
 2. Were results of such Air Force studies as mentioned by the Gazette shared with Navy personnel or leadership at any point? If so, what was the earliest date such studies were shared?
 3. The Gazette story references a 1997 study conducted by the Navy to determine if bacteria can break down ingredients of AFFF. Can you confirm that this study took place and if so, provide it?
 4. When did the Navy first become aware of the potential dangers of AFFF for human health? Related, when did personnel associated with NASJRB Willow Grove or its closure, as well as NAWC Warminster and its closure, first receive notice that use

of AFFF could be of concern for human or environmental health?