

FALL 2013

NESDI NEWS

Highlights & Happenings



Welcome

This quarterly update provides you with the latest information about program operations, significant accomplishments, and future focus areas for the Navy Environmental Sustainability Development to Integration (NESDI) program. We hope you will find these insights useful and that they encourage you to participate (or increase your involvement) in the program over the coming months.

**The NESDI Program: Integrating
Green Technologies Into the Fleet**





Who We Are

The NESDI program is the Navy's environmental research and development demonstration and validation (6.4) program, sponsored by the Chief of Naval Operations Energy and Environmental Readiness Division (OPNAV N45) and managed by the Naval Facilities Engineering Command (NAVFAC) from the Engineering and Expeditionary Warfare Center in Port Hueneme, CA. The mission of the program is to provide solutions by demonstrating, validating, and integrating innovative technologies, processes, materials, and by filling knowledge gaps to minimize operational environmental risks, constraints, and costs while ensuring Fleet readiness.



NESDI Principal Investigator Bill Major and his team assessed the potential impacts of the removal of an underwater cable from the Monterey Bay National Marine Sanctuary off the coast of central California—efforts that will aid the Navy in making sound decisions regarding the long-term disposition of seafloor cables. In advance of Bill's work, John Kornuc, also a NESDI Principal Investigator, conducted laboratory testing to aid in the determination of the long-term disposition of seafloor cables in general. The results of this laboratory study and Bill Major's field study will be publicized in an upcoming issue of *Currents*—the Navy's energy and environmental magazine.





From the Program Manager's Desk



Leslie Karr, P.E.
NESDI Program Manager

Welcome to the fall 2013 issue of *NESDI News: Highlights & Happenings*—part of our ongoing effort to keep you informed about the NESDI program.

As fiscal year (FY) 2013 ends and we begin FY14, a few reflections are probably warranted. Although our program execution was impacted by sequestration and furloughs, many of our individual projects were well executed during the last quarter of FY13. In regard to program benchmarks, we were 10% below our 56% expenditure benchmark for the end of year.

Due to another year of underexecution, the program was again scrutinized which has led to yet another reduction in resources for FY15. The NESDI program will now be operating at \$3.8M—a 55% reduction. The good news is that, based on our current execution rates and the number of our active projects, we should meet both FY14 and FY15 benchmarks.

For the past several weeks, the program's management team, the Technology Development Working Group (TDWG), and I have been screening and ranking the needs that we received via our solicitation efforts for FY14. We have also set the dates for our three In-Progress Reviews (IPR) for the year. More information about the results of our needs screening and ranking process, the process for submitting pre-proposals to address those needs, as well as a schedule for our IPRs is provided below.

Since the publication of the last issue of *NESDI News*, we have said farewell to some members of our TDWG and welcomed other members onto the team. In particular, Jerry Olen, one of our representatives from the Space and Naval Warfare Systems Command (SPAWAR) for the past several years, moved on and is now a member of the Living Marine Resources program's advisory committee. Jerry brought much needed range-related expertise to the TDWG—expertise that will be challenging to replace. Nick Paraskevas, one of our representatives from the Naval Air Systems Command (NAVAIR) since the inception of the NESDI program, has also moved on and has been replaced by one of his NAVAIR colleagues—Dave Brock. Like Nick, we will rely on Dave to provide us with insights and connections to the NAVAIR acquisition community. We appreciate all of the great support that Jerry and Nick provided to the program as critical members of the TDWG and wish them well on their new assignments.

Leslie Karr



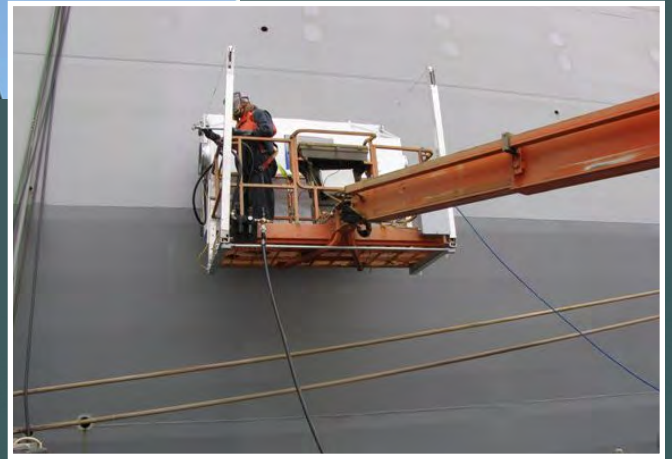
Results of FY14 Needs Solicitation, Screening & Ranking

All in all, the program collected a total of 57 needs via our FY14 solicitation. After a thorough review by program personnel including the TDWG and our resource sponsor, OPNAV N45, 17 needs were determined to be worthy of further attention by the program. As a result, pre-proposals will be solicited to address the following priority needs.

NO.	NEED	EEC	COMMAND	TITLE
1.	N-0914-14	5	NAVFAC	Flushing of Potable Water Distribution Lines to Maintain Chlorine Residual
2.	N-0925-14	5	NAVFAC	Web-Based Enterprise Hazardous Waste Database Application
3.	N-0937-14	3	NAVAIR	Leaking Thermosetting Elastomer Bomb Sealant in General Purpose Bombs
4.	N-0944-14	4	NAVFAC	Long-Term Integrated Sediment Management Strategy to Ensure Resiliency of Mission Critical Infrastructure
5.	N-0946-14	2	USFF	Multi-Spectral Weapon Impact Detection System
6.	N-0948-14	4	NAVSEA	Design Closed-Loop Cooling Water System to Accommodate Ships' Cooling Water Needs
7.	N-0951-14	4	NAVAIR	Environmental Effects Certification Protocol for Navy Tactical Fuels
8.	N-0952-14	3	NAVAIR	Trivalent Chromium Conversion Coating - Enhanced Coloration of Aluminum Substrates
9.	N-0953-14	5	Other	New Methods for Assessing Biological Response Metrics for Eutrophication Total Maximum Daily Loads
10.	N-0956-14	5	NAVFAC	In-Situ Discharge Monitoring
11.	N-0960-14	5	NAVFAC	How Building Characteristics Affect Vapor Intrusion Potential Into Industrial Buildings
12.	N-0961-14	5	NAVFAC	How Significant is Temporal Variability of Vapor Intrusion Data Associated with Industrial Buildings
13.	N-0965-14	5	NAVFAC	Perfluorochemicals on Naval Installations
14.	N-0970-14	3	NAVAIR	Corrosion Detection without Surface Coating Removal
15.	N-0978-14	4	NAVSEA	Drydock Effluent Filtration System
16.	N-0989-14	2	NAVFAC	Underwater Low Environmental Impact, Munitions Breaching Technology
17.	N-0990-14	5	NAVSEA	Develop an Automated Real-Time Opacity Monitor for Use in Determining the Opacity of Fugitive Emissions in lieu of EPA Method 9



Jim Howell led a team of engineers from the Navy and the private sector to develop the Motion Assisted Environmental Enclosure (MAEE)—an enclosure and control device that captures the overspray generated during hull painting operations and mitigates the release of these paint contaminants into the environment. This effort will be profiled in an upcoming issue of *Currents*—the Navy's energy and environmental magazine.



This NESDI project, led by Brandon Swope, identified and provided an in-depth analysis of two priority Military Expendable Material items—copper-based torpedo guidance wire and nylon sonobouy decelerators (parachutes). A better understanding of the potential environmental impacts of these materials is needed to ensure the regulatory compliance required for continued and uninterrupted training and testing in support of the Navy warfighter. The results of this study will be made available via the NESDI website and publicized in an upcoming issue of *Currents*—the Navy's energy and environmental magazine.



Collection of Proposals to Address Priority Needs

Now that the priority list of needs for FY14 has been established, the NESDI program will turn its attention to the collection of pre-proposals to address those needs. The purpose of the pre-proposal is to ensure that the proposed project adequately addresses the requirements outlined in the need. The NESDI program concentrates on technologies that are sufficiently mature for demonstration and validation and supports the overall environmental readiness of the Fleet and Navy acquisition communities. Any pre-proposal should address the following requirements:

- Be approximately two pages in length.
- Clearly identify the applicable EEC.
- Focus on the problem to be addressed.
- Clearly explain the project objectives.
- Quantify and qualify the technical criteria for a successful project.
- Identify the environmental constraint(s) to be resolved.
- Include the basic strategy for successfully integrating the solution into the Fleet.
- Identify the authorization stakeholders related to the proposed effort.

www.nesdi.navy.mil

**“Submit Your
Pre-proposal Now”**

A solicitation for pre-proposals is executed via the program's website (www.nesdi.navy.mil) using a pre-proposal template. To submit a pre-proposal, follow the "Click Here to Learn More" link next to the "The NESDI Program is Accepting Pre-proposals 11 October 2013 through 13 November 2013" banner at the top of the NESDI website home page. You will be directed to a page that provides more details about the pre-proposal collection process. Once you're ready to submit your pre-proposal, click the "Submit Your Pre-proposal Now" button. You will be asked to fill-in the information on the screen above.

Once you have completed all of the fields on this form, hit "Spell Check" then "Submit" at the bottom of the form. Your pre-proposal will then be sent to the program's management team for further consideration.

You have until 13 November 2013 to submit your pre-proposal.

Once all pre-proposals have been collected, NESDI program management will review and rank them using established criteria including how the proposed effort addresses the need, how executable the project is, if the proposed effort is ready for demonstration and validation, and how feasible it will be to integrate the solution into ongoing Fleet operations. This is followed by a

final evaluation that determines which pre-proposals will proceed to full proposal development. The results are provided to anyone who submitted a pre-proposal shortly after the evaluation period ends on 22 November 2013.

Full proposals are requested for those pre-proposals that do the best job of meeting the evaluation criteria and addressing the explicit requirements as stated in the targeted need.

The call for full proposals will run from 12 December 2013 until 19 February 2014. (Full proposals are solicited by invitation only.) Successful proposals will result in new projects beginning in FY15 and beyond.

You have until 13 November 2013 to submit your pre-proposal.



Using Our Web Site



www.nesdi.navy.mil

Direct any questions about submitting a pre-proposal or any other function of our website (www.nesdi.navy.mil) to our webmaster Eric Rasmussen at 732-323-7481 or eric.rasmussen@navy.mil.

www.nesdi.navy.mil



Program Schedule

For the next several months, the program will concentrate its efforts on the collection and evaluation of pre- and full proposals to address the priority needs that were collected, screened, evaluated and ranked as part of the program's FY14 needs solicitation process. A program schedule for the entire year is provided below.

NO.	WHAT	WHEN
1.	Request Pre-proposals	11 October 2013
2.	Conduct N45 Programmatic Review	23 September – 4 October 2013
3.	Close Pre-proposal Collection	13 November 2013
4.	Collect TDWG Comments on Pre-proposals	18 November 2013
5.	Evaluate Pre-proposals	18-22 November 2013
6.	Request Full Proposals	12 December 2013
7.	Collect Full Proposals	19 February 2014
8.	Deadline for Functional Working Group Comments on Full Proposals	14 March 2014
9.	Collect TDWG Comments on Full Proposals	21 March 2014
10.	Screen Full Proposals	24-28 March 2014
11.	Deadline for Principal Investigators to Answer Screening Questions	28 April 2014
12.	Conduct In-Progress Reviews	2-6 December 2013 Stormwater IPR (Pearl Harbor, HI) 5-9 May 2014 West Coast IPR (Port Hueneme, CA) 9-13 or 16-20 June 2014 East Coast IPR (Washington, DC area)
13.	Evaluate Full Proposals	9-13 June 2014 (at East Coast IPR)
14.	Obtain Sponsor Review & Approval of Full Proposals	3 July 2014
15.	Announce New Starts	30 July 2014
16.	Announce FY15 Needs Solicitation	2 June 2014
17.	Close FY15 Needs Solicitation	1 August 2014
18.	Screen Needs	11-15 August 2014
19.	Evaluate & Rank Needs	8-12 September 2014
20.	Obtain Sponsor Review & Approval of Needs	15-26 September 2014
21.	Quarterly Status Reports Due (all Mondays)	7 October 2013 6 January 2014 7 April 2014 7 July 2014

Check out our web site (www.nesdi.navy.mil) for the latest version of our program schedule.



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GETTING ON OUR MAILING LIST

If you're not already on our mailing list and want to subscribe to *NESDI News*, please send your email address to Lorraine Wass at 207-384-5249 or ljwass@surfbest.net.

CONTACT YOUR TDWG MEMBER

For more information about the operation of the NESDI program, contact Leslie Karr, the program manager, or members of the TDWG.

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6.	Hertel, Bill	NAVSEA	301-227-5259	william.hertel@navy.mil
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IN THE NEXT ISSUE OF NESDI NEWS

There is a lot more information coming your way in the next issue of *NESDI News: Highlights & Happenings*. In our winter 2014 issue, we will provide you with updates on our efforts to evaluate and rank the pre-proposals received by our 13 November deadline.

Until then, look for the following articles about the results of our FY14 needs collection effort as well as insights into several successful NESDI projects in upcoming issues of *Currents*, the Navy's energy and environmental magazine:

- NESDI FY14 Needs Solicitation Yields 17 Priority Needs: Annual Process Taps Unresolved Environmental Needs from the Fleet
- Evaluations of Priority MEMs Accurately Characterize Risk to Navy Training Ranges: NESDI Project Assesses Potential Impact of Copper Guidance Wire & Sonobuoy Parachutes
- Studying the Impact of Seafloor Cables on the Marine Environment: NESDI Project Provides Scientific Methodology & Data to Aid in Sound Decisionmaking
- NESDI & ONR Sponsor Technology to Control Paint Overspray in Shipyards: MAEE Prevents Paint Contaminants from Reaching the Air & Water

You can read *Currents* on-line and subscribe to the magazine at <http://greenfleet.dodlive.mil/currents-magazine>.