

N45 Offers EPCRA Reporting Resources

Information is Critical for Accurate Program Assessment

WITH AN EYE towards next year's Emergency Planning and Community Right-to-Know Act (EPCRA) reporting cycle, there are many resources at your disposal for additional guidance and assistance with reporting efforts.

Form R Review Service

The Form R review service is a free service offered by the Chief of Naval Operations, Energy and Environmental Readiness Division (N45). Navy facilities submitting Form Rs are strongly encouraged to utilize this service. The Form R review provides a technical review of completed draft Form Rs prior to submittal, ensuring any calculation errors are identified and applicable exemptions are applied.

There are many resources at your disposal for additional guidance and assistance with reporting efforts.

First, the review examines how the Form R is completed. For example, the reviewer will ensure the facility name is in the correct format; the releases reported correspond with the toxic chemical. (Are there air emissions reported for a volatile organic chemical? Are their land releases for lead on a range? Are whole numbers reported for non-Persistent Bioaccumulative Toxic chemicals?)

Next, the review briefly examines activities that triggered reporting and releases included in the Form R release estimates to ensure the Form R is completed correctly. For example, many installations "otherwise use" naphthalene in non-exempt activities and "manufacture" naphthalene as a product of combustion from the burning of fuels in equipment. These activities alert the Form R reviewer to look for point source and fugitive air emissions from storage tanks and fuel dispensing respectively, to question pathways for releases to water, and to examine spills and transfers off-site.

The voluntary Form R technical review service is available through the Navy's EPCRA Helpline (NavyEPCRA@

urscorp.com) for each reporting cycle. An announcement is distributed to the Navy EPCRA e-mail group each spring. Draft Form Rs are requested by mid-May with reviewer comments provided as soon as possible after receiving the draft. Following the review, a detailed e-mail is provided for installation documentation which documents the items identified and recommended changes to the Form Rs.

The Form R review service not only provides compliance support for installation's EPCRA reporting responsibilities, but also assists in promoting consistent and correct reporting Navy-wide. For example, the review this past reporting cycle identified instances where wastes generated from exempt activities were incorrectly included on the Form R. As another example, Navy installations using the same specialized material in the same process were reporting different releases. The review identified the correct release pathways and amounts to be reported on the Form R.

Training

The Naval Civil Engineer Corps Officer School (CECOS) will be offering full EPCRA training and refresher courses, in the form of web conferences in preparation for reporting year 2011 reporting (reports due in 2012 for calendar year 2011). These courses are instrumental for those individuals responsible for completing and complying with EPCRA reporting requirements. The CECOS EPCRA no-cost, no-travel web conferences provide the latest EPCRA information from EPCRA experts.

Upcoming EPCRA Course Offerings

EPCRA and TRI Reporting	31 October to 3 November 2011 28 November to 1 December 2011
Section 311/312 Refresher Course	12 January 2012
Section 313 Refresher Course	15 and 16 February 2012

The EPCRA and Toxic Release Inventory (TRI) Reporting is a four-day course (approximately six hours per day) essential for those with EPCRA compliance responsibilities. This course provides an introduction to EPCRA, emphasizing emergency planning, emergency release notification, material safety data sheets reporting requirements, Tier I/Tier II reporting requirements, toxic chemical release reporting, and information required for EPCRA compli-

ance. The upcoming course offerings are 31 October to 3 November 2011 and 28 November to 1 December 2011.

Refresher courses provide a review of the regulations with a focus on Department of Defense (DoD) and Navy-specific scenarios. The upcoming course offerings include Section 311/312 refresher course on 12 January 2012 (one day for approximately five hours) and Section 313 refresher course on 15 and 16 February 2012 (two days for approximately six hours per day).

All upcoming EPCRA course offerings are listed on the CECOS web site at <https://www.netc.navy.mil/centers/csfe/cecos/> under the “Courses” tab.

Guidance Materials

The OPNAV N45 EPCRA guidebook entitled “Getting Started with the Emergency Planning and Community Right-to-Know Act (EPCRA): A Primer for Navy Facilities” (May 2009) provides Navy environmental personnel with practical guidance on EPCRA reporting requirements. The document encompasses all applicable EPCRA reporting requirements including emergency planning (Section 302), emergency release notification (Section 304), hazardous chemical inventory reporting (Sections 312/313), and toxic chemical release reporting (Section 313). Key topics include:

- Summary of EPCRA requirements
- Quick reference for each EPCRA section
- Sample calculations
- Flow diagrams of reporting requirements
- Sample forms and letters
- Compliance checklist

OPNAV N45 has developed and provided additional detailed guidance on the following topics:

- How to Consider Batteries (February 2010)
- How to Consider Fuel Thresholds (June 2010)
- How to Consider Munitions and Range Activities (March 2011)
- How to Consider Nitrate Compounds (release pending)

Each guidance document includes an Excel™ template spreadsheet for calculation and documentation assistance. Copies of *Getting Started with EPCRA* and all available calculation manuals and templates are available at:

- The Naval Facilities Engineering Command’s Enterprise Document Library (https://portal.navfac.navy.mil/portal/page/portal/navfac/navfac_docs_pp)

- The CECOS training materials web site (<http://www.cecossweb.com/handouts/EPCRA>)
- The TRI Data Delivery System web page (<https://dod-triggs.org/tri-web>) (login required)

New calculation manual appendices will be announced via the Navy EPCRA e-mail group. To become a member, e-mail the helpline at NavyEPCRA@urscorp.com.

Send in Your Success Stories

DO YOU HAVE a toxic chemical release reduction success story? Send your success story to your Echelon II Command. Your story could be published in the Defense Environmental Programs Annual Report to Congress, Strategic Sustainability Performance Plan, *Currents*, or could become a Navy-wide best management practice. In addition, consider including your success story in the narrative portion of your N45 environmental awards nomination submission.

The EPCRA Helpline

The Navy’s EPCRA Helpline (NavyEPCRA@urscorp.com) is available to answer your EPCRA questions. Helpline personnel have extensive knowledge of DoD and Navy EPCRA policy and significant, current experience supporting Navy installations with EPCRA compliance. EPCRA questions may be e-mailed to the Helpline at any time and a response will be sent no later than the next business day.

How-To Close Reporting Year (RY) 2010 Reporting

The following checklist provides helpful hints on completing RY 2010 efforts.

1. Compile Your Documentation
 - Reporting forms and any associated notes
 - Proofs of delivery
 - Section 313 Facility Data Profile
 - TRI-Made Easy web site (TRI-MEweb) username and password in a secure location
 - Communication with EPCRA authorities
2. Record Your Data Collection Methods
 - How were data collected?
 - Where/what exemptions were applied?
 - Were assumptions made? If so, what were they?

3. Document Your Calculations

- What calculation approaches were used?
- What calculation tools were used?
- What were the release estimates and what sources/contributors were included?

4. Report Up

- Report data up the chain-of-command.

Improvements in Tracking Progress

Navy installations have been working to continually improve the accuracy of TRI reporting and the quality of release estimates reported on the Form R. These efforts have improved the Navy's and DoD's ability to track and assess progress toward meeting toxic chemical release reduction goals.

N45 Wants Your Feedback

- Do you find the guidance documents helpful?
- Is there information you would like to see added to the existing guidance documents?
- Do you have an idea for future guidance materials?

Please send your comments on existing guidance and ideas for new EPCRA guidance materials to the Navy EPCRA e-mail helpline at NavyEPCRA@urscorp.com. 

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NAS Pensacola Moves Closer to Energy Compliance with Electric Cars

Seven New Vehicles Help to Meet SECNAV Energy Mandates

SEVEN NEW ELECTRIC vehicles were delivered to Naval Air Station Pensacola (NASP) 11 July, bolstering the NASP Public Works Department (PWD) Transportation Center motor pool's electric fleet and helping bring the

installation closer to meeting the Secretary of the Navy's (SECNAV) energy mandates.

Secretary of the Navy Ray Mabus laid out five aggressive energy goals in October 2009 to improve the Navy's energy security and efficiency, increase energy independence, and help lead the nation toward a clean energy economy. This initiative assists in achieving the energy goal of increasing alternative energy afloat and ashore where by 2020, the Department of the Navy (DON) will produce at least 50 percent of shore-based energy requirements from alternative sources and 50 percent of DON installations will be net-zero.



Vantage Vehicle International GreenVans are unloaded at NASP on 15 July.

Mike O'Connor

The Vantage Vehicle International GreenVan EVP1000s are undergoing preparation for use. These electric passenger-carrying vans are charged using a conventional-style power cord but also feature solar panels on the vehicle's roof to help charge the battery while in use.

"These vehicles are to replace some of the gas-powered vehicles already in the pool that the customers are already using," said William Clowe, Naval Facilities Engineering Command Southeast (NAVFAC SE) transportation director. "The good thing about these vehicles is that they already have a third row seat for passengers."

The GreenVan EVC1000s currently in inventory are sliding-door models, which are primarily cargo carriers. These electric vehicles, in a class known as slow-moving vehicles, cannot go out on the highways; their top speeds don't allow that. But they fill a valuable on-base role for mail runs, administrative purposes and as people-movers in general.



PWD had in existing inventory 15 electric vehicles—eight Vantage electric pickup trucks and cargo-style vans, and seven older Global Electronics Motorcars passenger cars. NASP received its first Vantage Vehicle International electrics last year and they have been well received, according to Clowe.

"Ever since they've gone out to the customers, we haven't had any complaints," he said. "Customers like them. They're keeping them and that's good news."

Two of the vehicles are going to Supervisor of Shipbuilding, Conversion & Repair Gulf Coast in Pascagoula, MS. The PWD Transportation Center leases out vehicles to government customers as well as NASP tenant commands, including some as far away as Eglin Air Force Base. Internal customers for the electrics include NASP Corry Station, Naval Hospital Pensacola and Naval Air Training Technical Center.

As NAVFAC SE moves to meet SECNAV instruction to reduce petroleum usage 50 percent by 2015, the plan includes putting 215 Vantage Vehicle International electrics in place across the southeast region. Among the significant advantages of going green—cost savings.

"You could get two of these for the price of one van," Clowe noted. "The cost of a lease (to an internal customer) is about half of a conventional gas-powered vehicle." 

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Register Now for Annual SERDP & ESTCP Symposium

Program Includes Technical Sessions & Training Opportunities

THE PARTNERS IN Environmental Technology Technical Symposium and Workshop, sponsored by the Strategic Environmental



Research and Development Program (SERDP) and the Environmental Security Technology Certification Program (ESTCP), will be held 29 November to 1 December 2011, at the Washington Hilton in Washington, D.C.

Plenary Session

The symposium and workshop will commence with presentations by three distinguished plenary session speakers:

1. Dr. John Holdren, Assistant to the President for Science and Technology in the White House Office of Science and Technology Policy
2. The Honorable Terry Yonkers, Assistant Secretary of the Air Force for Installations, Environment and Logistics
3. Dr. Naomi Oreskes, Professor of History and Science Studies at the University of California, San Diego and Adjunct Professor of Geosciences at Scripps Institution of Oceanography

They will discuss emerging environmental challenges facing the Department of Defense (DoD) and solutions for a sustainable future. Also, as part of the plenary session, SERDP and ESTCP principal investigators who have helped DoD achieve its mission while improving its environmental performance will be honored as the SERDP and ESTCP Project-of-the-Year Awards are announced.

Technical Program

A comprehensive technical program consisting of concurrent technical sessions and short courses covering a variety of scientific and technical topics will follow the plenary session.

Technical Sessions

Fifteen technical sessions will highlight research and innovative technologies that improve DoD's environmental

performance, reduce costs, and enhance mission capabilities. Following are this year's topics:

1. Energy Management and Technologies for DoD Buildings
2. Renewable Energy on DoD Installations
3. Microgrids for Energy Security on DoD Installations
4. Challenges to Military Readiness Posed by Climate Change
5. Pacific Island Restoration Challenges
6. Role of Fire in the Carbon Cycle under Climate Change
7. Incorporating Innovative Technologies to Meet DoD Restoration Goals from Remedy in Place to Response Complete
8. Environmental Molecular Diagnostic Tools: Innovations and Applications
9. Improving Our Understanding of the Impact of Contaminants Stored in Low Permeability Zones
10. Best Management Practices for Controlling Munitions Constituents on Operational Ranges
11. Classification Applied to Munitions Response—Development
12. Classification Applied to Munitions Response—Production Applications
13. Next Generation Energetic Materials—Striking a Balance between Performance, Insensitivity, and Environmental Sustainability
14. National and International Regulatory Impacts on DoD Operations: Refining the Goals of DoD's Strategic Plan for 'REACH'
15. Impact of Particulate Emissions from Gas Turbine Powered Aircraft

To view the lineup of speakers and their topics for each technical session, visit www.serdp-estcp.org/symposium.

Short Courses

Short courses will offer unique training opportunities on emerging technologies and methods in environmental restoration and munitions response. Professional development hours will be offered for participation in short courses. Attendance for these short courses will be limited, and advanced registration for each short course is required. Following are this year's short course topics:

- Implementing Classification on a Munitions Response Project
- Estimating Dense Nonaqueous Phase Liquid Source Zone Natural Attenuation
- Thermal Treatment Technologies: Lessons Learned
- Field Methods to Distinguish between Vapor Intrusion and Indoor Sources of Volatile Organic Compounds

To view the agendas for each short course or to pre-register, visit www.serdp-estcp.org/symposium.

Funding Opportunities Briefing

On the last day of the symposium, the Executive Director of SERDP and ESTCP will present a funding opportunities briefing and hold a Q&A session afterwards. During this briefing, attendees will receive an overview of SERDP and ESTCP investment strategies, funding levels, and areas of emphasis as well as a summary of opportunities to conduct research and technology demonstrations. This “how to play” briefing will offer valuable information on the solicitation processes for those who would like to understand how to submit proposals for upcoming funding opportunities.

Other Symposium Highlights

Attendees will have numerous opportunities to tour more than 450 posters and exhibit booths and network with approximately 1,200 environmental professionals. Technical exchange networking receptions will be held both Tuesday and Wednesday evening.

Solicitations to Be Released Beginning in October 2011

SERDP is DoD’s environmental science and technology program, executed in partnership with the Department of Energy and the U.S. Environmental Protection Agency. SERDP invests in basic and applied research and advanced development. ESTCP is DoD’s environmental technology

demonstration and validation program. The program’s goal is to identify and demonstrate cost-effective technologies that address DoD’s highest priority environmental requirements. Both programs address DoD environmental needs in the Energy and Water, Environmental Restoration, Munitions Response, Resource Conservation and Climate Change, and Weapons Systems and Platforms areas.

ESTCP will be seeking proposals in response to its FY 2013 solicitation, scheduled to be released in late October 2011. Projects will be selected through a competitive process that is open to both Federal and non-Federal submissions. Upon release of the solicitation, detailed instructions and the Statements of Need will be available at www.serdp-estcp.org under “Funding Opportunities.”

The FY 2013 ESTCP Environmental Technologies solicitation will be released in early January 2012. The FY 2013 ESTCP Installation Energy solicitation will be released in early February 2012. Technology demonstrations are open to both the Federal and non-Federal sectors, and projects will

be selected through a competitive process. Information about the solicitation process is available at www.serdp-estcp.org under “Funding Opportunities.”

For More Information

For additional information about the symposium, visit www.serdp-estcp.org/symposium, send an e-mail to partners@hgl.com, or call the contact line at 703-736-4548. For information about the SERDP or ESTCP solicitations, visit www.serdp-estcp.org. 



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NAVFAC Southwest Renewable Energy Contract May Serve as Model

Groundbreaking Celebrates Renewable Energy Contract for MCAS Miramar

THE NAVAL FACILITIES Engineering Command (NAVFAC) Southwest awarded a \$42.7 million contract on 12 July to purchase renewable energy that will supply Marine Corps Air Station (MCAS) Miramar with up to half of its daily power over a 15 year period and may serve as a model for future Department of Defense long term power purchase agreements.

“This project, which is one of many the Department of the Navy is pursuing in the Southwest region of the country, is the first project in the entire Department of Defense to use special legislation established to allow the long term, 10 to 30 year, business arrangements necessary to accomplish these types of power purchase agreements,” said Capt. Keith Hamilton, NAVFAC Southwest commanding officer.

The special legislation is Section 2922a of U.S. Code Title 10 “Contracts for energy or fuel for military installations” which Congress enacted in July 1982.

Miramar Energy LLC, a wholly-owned subsidiary of Fortistar Methane Group of White Plains, NY will build a 3.2 megawatt power plant powered by methane gas at the city of San Diego Miramar landfill. The city of San Diego landfill is on leased land from the U.S. Navy and adjacent to MCAS Miramar. Minnesota Methane, a subsidiary of Fortistar Methane Group, currently manages a power plant that collects methane gas at the landfill to generate electricity for landfill operations. The plant’s renewable energy is also sold to the city of San Diego.

NAVFAC Southwest, MCAS Miramar, city of San Diego, Fortistar Methane Group and its subsidiary Miramar Energy LLC participated in a groundbreaking ceremony after the award. Members of the official party included city of San Diego Mayor Jerry Sanders, MCAS Miramar Commanding Officer Col. Frank Richie, NAVFAC Southwest Commanding Officer Capt. Keith Hamilton, and Fortistar President Mark Comora.

“This project is a very important early success on the path towards accomplishing Secretary of the Navy Mabus’ energy strategy to improve our energy security, efficiency, and independence by obtaining or producing at least 50

percent of our total ashore energy requirement from clean, renewable or alternative sources by 2020,” said Hamilton, during remarks at the groundbreaking ceremony.

The project also has an American Recovery and Reinvestment Act of 2009 component. RQ-Berg JV of Carlsbad, CA was awarded a \$5.4 million Recovery Act funded contract in February 2011 to construct an electrical distribution system to supply renewable energy from the landfill power plant site to MCAS Miramar.

“Our team has been carefully working that project in parallel with the power plant agreements to ensure that the power lines will be ready to receive and distribute the power when this new plant is ready to go in service,” said Hamilton.

The project will also improve MCAS Miramar’s strategic energy security and economics.

This renewable energy will significantly reduce MCAS Miramar’s reliance on fossil fuels.

—Rose Araracap

“The contract will include a provision for “Black Start”—a technology that allows MCAS Miramar to maintain electrical operations in the event of an electrical grid failure,” said Rose Araracap, NAVFAC Southwest deputy assistant operations officer and technical expert for this renewable energy project. “This renewable energy will significantly reduce MCAS Miramar’s reliance on fossil fuels. The price is pre-established for price predictability and budgetary planning,” she continued.

Electricity generated from the landfill renewable power plant is scheduled for delivery by early 2012.

“I am extremely pleased that early next year I can flip on the switch and half of the power will be coming from San Diego’s trash,” said Col. Frank Richie, MCAS Miramar commanding officer. ↴

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NAS Jacksonville Solar-powered Vehicle Marks Two Years Off the Grid

Over 1,000 Miles Traveled

IN MARCH 2009, Naval Air Station (NAS) Jacksonville modified one of its electric vehicles with a solar cell power system for use by the environmental staff on the station. After installing three sets of 110-watt panels on the roof of a Global Electric Motors vehicle to charge six 12-volt batteries, the staff has traveled more than 1,000 miles in the last two years completely off the electric grid. While

traveling at a top speed of 24 miles per hour (mph), the panels continually recharge the batteries during the day.

The staff uses the vehicle for daily inspections, visitor tours and exhibits at the Florida Transportation Planning Organization Clean Cities, City of Jacksonville Environmental Symposium and Earth Day Celebration and station air show and energy conservation awareness events.

With electricity costs relatively low in Jacksonville, FL, the system cost of \$4,000 is currently not cost effective (10-year pay back), but demonstrates that a properly sized solar photovoltaic system can provide transportation power without connection to the power grid. The system included mounted panels (designed to withstand 60 mph winds), three voltage regulators and a separate inverter to convert solar energy to 110 volts.

As part of the test the solar panels have not been cleaned to better replicate normal operations. Only rain, wind and vehicle travel remove dust and dirt from the flat panels and, with two years off the grid, the panels continue to work to effectively recharge the batteries. ⚓

Aviation Maintenance Administrationman 1st Class Bridget Geigerpye of Patrol Squadron Eight displays the NAS Jacksonville solar-powered vehicle on the base flightline.

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BE PART OF OUR SPRING ISSUE

Submissions Are Due by 20 January

We're already planning our spring 2012 issue. And you can be a part of it! If you have a story that you want us to consider, you need to submit your final text and images by 20 January 2012.

The power of your experiences is even greater when you share them with our readers.

Your chances of being published in *Currents* are dramatically increased if you follow our article template. Simply request this easy-to-use template by sending an email to Bruce McCaffrey, our Managing Editor, at bruceMcCaffrey@sbcglobal.net. Bruce is available at 773-376-6200 if you have any questions or would like to discuss your story ideas.

We look forward to reading your stories about all the great work you're doing to optimize the Navy's energy use and serve as good stewards of the environment.

Currents Deadlines

- Spring 2012 Issue: Friday, 20 January 2012
- Summer 2012 Issue: Friday, 20 April 2012
- Fall 2012 Issue: Friday, 20 July 2012
- Winter 2013 Issue: Friday, 19 October 2012

You can also refer to your *Currents* calendar for reminders about these deadlines.