

Welcome to the August edition of the “SRNS News.”

It's been an exciting month! On August 17, we received confirmation that we have again achieved Star Status in the Department of Energy (DOE)



Voluntary Protection Program (VPP). I'm looking forward to receiving our Star Certificate of Achievement and DOE VPP flag from DOE-SR Manager, Jack Craig.

A message from Garry Flowers

SRNS President and CEO

A day earlier, August 16, Fluor Corporation announced that Fluor-B&W Portsmouth, LLC had been chosen by DOE for the next phase of cleanup at the Portsmouth Site in Pike County, Ohio. Greg Meyer, who serves as Senior Vice President for Operations, Environment and Nuclear, attributed this in part to the SRS team, noting our exceptional second year and the turnaround achieved by our performance.

I'm very proud of these accomplishments, and the many more that we have celebrated this month in recognition of our two year anniversary at SRS. I hope you enjoyed the special publication regarding our many achievements. To thank and recognize employees, we treated the team to an SRNS night at the Augusta Green Jackets. See the photos on Page 4.

Another major event for us this month was the announcement that Dr. Terry A. Michalske would be joining SRNS as the Director of the Savannah River National Laboratory. He'll be joining us in mid-September.

I hope you enjoy the August edition. As always, thank you for your continued support.



*EMPLOYEES CELEBRATED
THE SRNS TWO-YEAR
ANNIVERSARY WITH
A NIGHT AT THE BALLGAME.
SEE PAGE 4 FOR MORE.*

SRNS news

SAVANNAH RIVER NUCLEAR SOLUTIONS

SRNS safety shines with 2010 VPP 'Star of Excellence' award

SRNS has again been awarded the U.S. Department of Energy (DOE) Voluntary Protection Program (VPP) “Star of Excellence.”

“Time and again Savannah River Nuclear Solutions has proven how highly they value employee safety,” said Inés Triay, Ph.D., DOE Assistant Secretary for Environmental Management. “We recognize that their safety culture is one to be appreciated and imitated.”

In order to be recognized as a participant in the DOE VPP, a contractor must demonstrate excellence in the following safety program areas: management leadership, employee involvement, worksite analysis, hazard prevention and control, and safety and health training.

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New SRNL director to take helm in September

Terry A. Michalske, Ph.D., the former Sandia Laboratory Director of Energy and Security Systems, will become Director of the Savannah River National Laboratory (SRNL) in mid-September.

Dr. Michalske has more than 30 years of experience in the fields of energy science, solar energy, nanotechnology, and biomolecular analysis, principally for Sandia. In his last post at Sandia, he focused on energy science and technology, systems modeling and optimization, and vulnerability and consequence management for major U.S. Department of Energy, Department of Homeland Security, and Department of Defense programs.



Terry A. Michalske, Ph.D.

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ISM Family Night to feature speaker Billy Robbins, displays

Employees, their families and the public are invited to attend Family Night at the SRS-sponsored Integrated Safety Management (ISM) workshop at the Augusta Marriott Hotel. Family Night is Wednesday, Sept. 15, from 4-9 p.m. Admission is free.

Guest speaker Billy Robbins, founder of “Hooked On Safety®”, will tell his extraordinary story of how he lost both his hands when he made contact with a 7,200-volt power line while working on an aerial cable in an accident that was 100 percent preventable. An extensive array of interactive displays will also be offered. Also, a small venue musical duo, known as “Loose Change,” will perform throughout the evening.

The workshop is sponsored by the DOE Savannah River Office and NNSA-SRS Office and is supported by the SRS Prime Contractors; SRNS; SRR; Shaw/Areva MOX Services, LLC.; Parsons; WSI-SRS Team; US Forest Service; and SREL. For more information, visit the website at www.srs.gov/general/ism2010.

2010 VPP ‘Star of Excellence’ award

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“We are pleased to recognize Savannah River Nuclear Solutions, the SRS management and operating contractor, for its safety commitment and performance,” said Jack Craig, Acting Manager, DOE’s Savannah River Operations Office at SRS. “This was SRNS’ first full scope VPP assessment and we thank them for their commitment to safety and their service to our nation. Congratulations to all SRNS employees.”

SRNS President & CEO Garry Flowers said that the VPP certification demonstrates his company’s continued commitment to safe operations. “The Savannah River Site has an enviable safety heritage and SRNS is proud to play an essential role in building on that heritage and ensuring that our employees remain focused on safety in everything we do,” said Flowers. “DOE’s Star of Excellence recognition affirms our belief that safety is an imperative.”

The Star of Excellence award is given to those sites demonstrating excellence in safety performance (OSHA recordable rates at least 75 percent lower than industry standards) and excelling by performing outreach efforts to other sites.



Present for the ribbon-cutting ceremony were (from left) Robert Garrett; Richard Harmon, President, Aiken County Habitat for Humanity; Dena Garrett, new home owner; Katie Garrett; and Fred Dohse, SRNS Executive Vice President.

Home Sweet Home SRNS builds Jackson Habitat home

A ribbon-cutting ceremony was held Sunday, Aug. 1, celebrating the completion of a new Habitat for Humanity house for a deserving family in Jackson, S.C.

This is the first Habitat for Humanity house built in Jackson and the first Habitat for Humanity home sponsored by SRNS. SRNS donated \$50,000 to the project, which paid for all of the tools and building materials used to construct the three bedroom, 1,200 square-foot home. The structure took 12 weeks to complete using an all-volunteer workforce.

Approximately 400 SRNS employees, many using some of their own tools, worked long hours to ensure that Dena Garrett and her three children would move into a soundly built, high quality home.

“I’m so grateful to the workers from SRNS and to the Habitat for Humanity organization,” said Garrett. “Though this home is such a blessing, it’s not just a house, it’s an opportunity for me and our family.”

“I’m so proud of these employees,” said Fred Dohse, SRNS Executive Vice President. “This house was built with strong arms and big hearts. Many of the volunteers put in dozens of hours. Their dedication to helping others in need is truly moving.”



Scholarship Tournament

Twelve SRNS senior staff members and managers participated in Congressman Jim Clyburn's annual Rudolph Canzater Golf Tournament in Santee, SC. Proceeds from this tournament provide \$1.5 million in scholarship aid and college assistance to more than 1,000 students from the Clyburn Scholarship Foundation. Participating SRNS employees included (from left) Clif Webb, Vice President for SRNS Public Affairs; Pete Knollmeyer, Vice President for SRNS Strategic Planning; Jim Hanna, Vice President for SRNS Workforce Services; Rep. Jim Clyburn; Hayward Barnwell, SRNS safety engineer; Garry Flowers, SRNS President and CEO; Lamar Cherry, SRNS Workforce Services; and Fred Dohse, SRNS Executive Vice President.

New SRNL director Michalske to take helm in September

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"We are extremely pleased that Terry is joining our executive team as Director of SRNL," said Garry Flowers, President and Chief Executive Officer of SRNS. "He is an outstanding leader with extensive experience and full commitment to growing our laboratory mission to support the environmental, energy, defense and homeland security needs of our nation – each essential to creating a sustainable future for SRNL."

"I am deeply honored to have the opportunity to lead SRNL's 900 distinguished scientists and research staff," said Michalske. "SRNL is internationally renowned in its expertise in ceramics; environmental and chemical processing technology; glass waste forms and vitrification; hydrogen storage; and nuclear forensics."

"These are critical technologies," Michalske said. "All are essential for meeting DOE's Office of Environmental Management's mission, and each holds a terrific foundation for growing SRNL's future in broader energy and national security missions."

Taking the plunge in the L Area storage pool

On a hot summer day at Savannah River Site, many employees would love to dive into a refreshing pool, but few would picture a pool of highly radioactive spent nuclear fuel (SNF).

However, recently at L Area the technical team of the Nuclear Material Storage Project (NMSP) worked with a contracted diver to safely enter an SNF storage pool to improve a structure within. The diver used everyday tools to repair the structure on time and with minimal radiation exposure.

The repairs were planned efficiently to allow limited time in the water and restricted access to the floor, where dose rates were the highest. The distance of water between the fuel and the pit, and even the water itself, shielded the diver from the highest levels of radioactivity.

Completion of the repairs is one of the key steps to NMSP's declaration of readiness to resume SNF shipments between L and H Area. The improved structure will be used to support the lid of a 70-ton SNF shipping cask during loading and unloading operations for the L to H project. Expected to complete this fall, it will re-establish the capability to transfer SNF from L Basin, where it is stored, to H Canyon, where it will be chemically processed.



A contracted diver repairs an underwater structure in an L Area Spent Nuclear Fuel storage pool.

SRNS goes out to the ballgame!

To mark its two-year anniversary
SRNS treated its employees
to a night at the Augusta Green
Jackets baseball game on Aug. 21.

SRNS Chief Financial Officer
Peggy Davis (right)
helps hand out stadium
seats to employees.



SRNS employees at the game
included (top left) Emily McKinsey
with daughter Charity; (top right)
Lori Coward with daughter
Kristen; and (bottom left) Chad
Shaver with wife Jenni and
daughter Emma.



SRNS employees filled the stands at the stadium.



Devin Haygood, daughter of
SRNS employee Dawn Haygood,
throws out the first pitch.



A Recovery Act Project is paving a 3,800-foot long ditch at the H-4 basin, improving drainage and directing the flow of stormwater.

ARRA funding improves drainage at seepage basin

Preventing the migrations of contamination from rainwater runoff at a closed seepage basin at the Savannah River Site can be as simple as a new concrete ditch and as complicated as making sure the runoff flows correctly.

The American Recovery and Reinvestment Act (ARRA) is funding a \$1.8-million project that is paving the way to prevent rainwater intrusion at the SRS H Area Seepage Basins (H-4 Basin), the Site's largest closed basin.

The task is focused on one of four unlined basins that were constructed in the mid-1950s. For 33 years, the basins received wastewater containing low-level radioactive and hazardous constituents, including relatively high concentrations of tritium.

The basins were designed to allow the wastewater to percolate through the underlying soil, filtering and containing a majority of the contamination. Once the basins were closed in 1988, a multilayer clay cap was installed over each basin. Today, the post-closure care of the closed H-4 Basins is maintained in accordance with a Resource Conservation and Recovery Act Permit.

Recovery Act workers are pouring concrete in a 3,800-linear-foot ditch at the closed H-4 Basin and tying in the ditch surrounding the basin with the its existing geosynthetic cover to further prevent leaching of contaminants into the groundwater.

High heat removes tritium from D Area soil and concrete

After a successful pilot project, Savannah River Site will expand the use of new decontamination technology funded by the American Recovery and Reinvestment Act. The process will rid soil and concrete debris of tritium contamination, and help the site meet its Recovery Act cleanup goals years ahead of schedule.

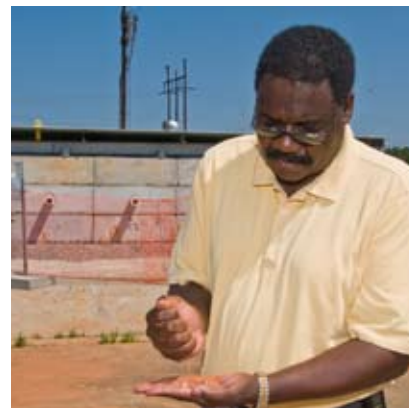
"This new technology will continue to be utilized in D Area at SRS and possibly other DOE sites with

similar cleanup challenges, resulting in additional cost savings from transportation and disposal of contaminated soils and concrete," said Diana Hannah, SRS D Area Federal Project Director.

Pilot testing of the process to remove tritium using a high heat source, called a "thermal detritiation unit," was successfully completed at the Site's D Area on June 24, 2010. Installation of three new units is under way and will be completed in October by Navarro Research and Engineering, Inc., an environmental services contractor with an office in Aiken. The pilot unit treated 100 cubic yards at a time, while the three new units will each be able to treat 200 cubic yards at a time.

Together, the four units will treat a total of 3,500 cubic yards of contaminated concrete and soils, which can then be returned to D Area excavation sites rather than being sent offsite for disposal, reducing transportation and disposal costs and accelerating cleanup.

"The D Area Thermal Detritiation Unit is a prime example of using emerging technology to take care of half-century old problems. Through Site resources, this process was identified and determined to be the best solution to rid D Area soils and concrete debris of tritium contamination," said Garry Flowers, SRNS President and CEO.



Joao Cardoso-Neto, the SRNS control account manager for the project, handles the fine powder that once was concrete in D Area. The thermal detritiation unit shown behind him uses heat to remove moisture from soils and concrete.

Savannah River National Laboratory designing, building, testing seaport radiation detector system

In August, the Savannah River National Laboratory (SRNL) began testing a prototype radiation detector system at SRS that may be deployed to U.S. container seaports.

Container operations use large (40 feet high) straddle carriers to move cargo containers from the dock to railroad cars or trucks. SRNL has developed radiation detector systems that straddle carriers can drive through. Depending on the system in use, the detectors will either alarm at any radiation above background, or alarm and identify the isotopes responsible for the excess radiation.

"We're glad to provide another service to DNDO. We have some of the best people in the world to configure such a test in our Research and Development Engineering Directorate. This system promises to be an economical and effective protection against radioactive material entering our ports."

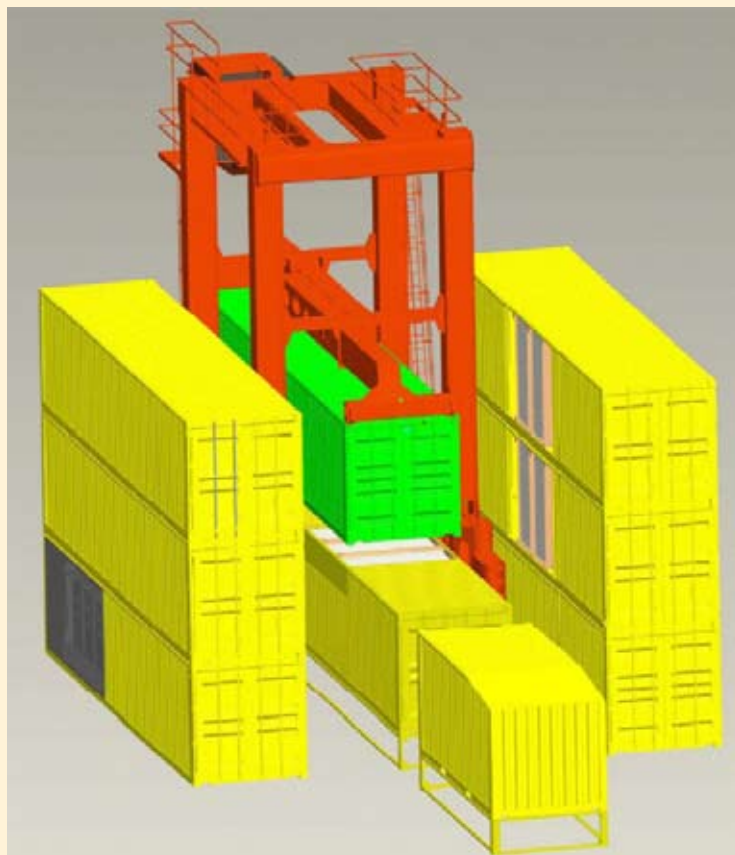
Al Goodwyn,

SRNL Homeland Security Program Manager

The system has three detector housing assemblies, two on the sides that the straddle carrier moves between and one looking upward beneath the carrier. The detector housing assemblies are similarly large—the two on the sides are 25 feet high. The outer housings are themselves made of cargo containers. This SRNL design is a less expensive mounting platform than designing, building and anchoring a structural frame. The entire array is referred to as a portal.

SRNL is carrying out these tests on behalf of the Domestic Nuclear Detection Office (DNDO), part of the Department of Homeland Security. SRNL is responsible for the design, fabrication, integration and testing of the prototype. Once the portal is at a seaport, stream-of-commerce traffic data collection and development testing may be conducted.

In recent years, SRNL has been testing numerous different kinds of radiation detectors for DNDO in different traffic environments, whether on land or water.



This conceptual image shows a prototype of the container radiation detector system under testing by SRNL.

"We're glad to provide another service to DNDO," said Al Goodwyn, SRNL's Homeland Security Program Manager, "and we have some of the best people in the world to configure such a test in our Research and Development Engineering Directorate. This system promises to be an economical and effective protection against radioactive material entering our ports."

Project manager Mitchell Stokes of SRNL said, "Work is on schedule due to the team effort of SRNL engineers and scientists, Project Management and Construction Services, Site Rigging, and Procurement; we plan to meet our customer's expectations on this project."