

● JUNE 2014

SAVANNAH RIVER NUCLEAR SOLUTIONS



SRNS Today



Veterans to Careers

Former Air Force medic is first intern hired at SRNS through new job training program



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Welcome

to the June 2014 edition of

SRNS Today



Carol A. Johnson
Carol Johnson
 SRNS President and CEO

With all due respect to author Thomas Wolfe, you CAN go home again.

It's great to be back at the Savannah River Site. As you may know, I worked at SRS in the past and now, as the President and CEO of Savannah River Nuclear Solutions, I'm privileged to once again be a part of this great national resource.

Driving through the gate on my first day back, I reflected on the historic strength of the Site, and the immense opportunities that lie in the future.

Our foundation for success is solid. Our safety program is legendary. Our operational expertise in the handling of nuclear materials is second to none. Savannah River National Laboratory is the Department of Energy's "go-to" site for Environmental Management innovation and implementation.

And because of the programs, expertise and innovation, SRS matters.

We matter in the community, thanks to the tireless efforts of SRNS employees who volunteer their time and talents to support local charities and non-profit agencies. SRNS offers community support through corporate philanthropy to continue to improve the quality of life of our area.

We matter to the nation. When other sites in the DOE Complex are faced with complex problems, they often turn to SRNS and our in-depth expertise for solutions.

We matter to the world. Our on-going assistance to Japan in the wake of the Fukushima nuclear disaster is best known, but SRNL has a presence in many countries who seek out the Laboratory's expertise in a range of scientific and technical fields.

The future of SRS is ripe with possibilities and our talented, creative and committed employees will be the driving force in making those possibilities into realities. They matter. And SRS matters.

I hope you enjoy this edition of SRNS Today. As always, thank you for your interest in Savannah River Nuclear Solutions.

About Savannah River Nuclear Solutions

Savannah River Nuclear Solutions, LLC, is a Fluor-led company whose members are Fluor Federal Services, Newport News Nuclear and Honeywell. Since August 2008, SRNS has been the management and operating contractor for the Savannah River Site, a Department of Energy-owned site near Aiken, South Carolina, including the Savannah River National Laboratory. The SRNS corporate and community offices are located in the renovated 1912 "Old Post Office" building in Aiken, S.C. The primary initiatives of SRNS are national security, clean energy and environmental stewardship. SRNS Today is published monthly by SRNS Corporate Communications to inform our stakeholders of the company's operational and community-related activities. If you have questions or comments, please contact us at 803.952.9584 or visit our website.

www.savannahrivernuclearsolutions.com



Spangler named to lead NNSA work

Wallis Spangler has been named as SRNS' Senior Vice President, National Nuclear Security Administration (NNSA) Operations and Programs, effective June 13.

In this position, he is responsible for approximately 1,000 employees who support Tritium operations and programs, along with the Waste Solidification Building construction project and the Nuclear Nonproliferation Program.

Spangler has spent the majority of his 30-year career with Honeywell, one of SRNS' parent companies, where he has held a series of program management, operations and supply chain



Wallis Spangler

management positions in federal manufacturing and technologies. Over the last year, Wallis has served as SRNS Senior Director of NNSA Operations and Programs.

Before joining SRNS, Spangler was Director of Honeywell's Supply Chain Management Center (SCMC), a collaborative partnership across the U.S. Department of Energy's Nuclear Security Enterprise and Environmental Management operations. The SCMC is credited with saving the federal government more than \$100 million annually by using new technologies and pooled purchasing power to drive efficiencies across the enterprise. As Associate Director of Honeywell's Integrated Supply Chain organization, he was responsible for all Honeywell Federal Manufacturing & Technologies manufacturing operations.

Spangler replaces Dennis Donati who resigned from Honeywell after 34 years of service, including a tenure at SRNS that was characterized by his forging of strong relationships with his customer and his employees, and notable accomplishments that ensured SRNS' work in support of NNSA was responsive and effective.

Three from SRNS honored by SRS Leadership Association

Three leaders from SRNS were honored at the Savannah River Site Leadership Association's (SRSLA) annual awards banquet, winning all three of the organization's competitive awards. SRSLA is the SRS chapter of the National Management Association, and draws its membership from the wide variety of employers represented at SRS, including contractors, subcontractors and federal offices.

Departing SRNS President and CEO Dwayne Wilson was honored as SRSLA's Executive of the Year in recognition of his enterprise results-oriented leadership excellence, achieving success through partnerships with customers, colleagues, and employees. In presenting the award, guest speaker Dr. Sandra Jordan, Chancellor of the University of South Carolina Aiken, noted Wilson's many accomplishments, his passion for safety and his integrity.

William "Bernie" Till Jr., Lead, SRNS Nuclear Facilities Fire Protection Engineering Program, was named Leader of the Year for outstanding leadership in plant operations and employee development. In presenting the award, SRNS Engineering Manager J.C. Wallace pointed out that Till epitomizes three key qualities of a leader: He has courage, he knows his stuff and he takes care of his troops.



SRSLA honorees included (from left) William "Bernie" Till Jr., Leader of the Year; Winston Moore, Member of the Year; and Dwayne Wilson, Executive of the Year.

Winston Moore of SRNS Engineering was awarded the organization's Member of the Year for demonstrating innovation and promoting a team spirit in SRSLA throughout the program year. Moore, who serves as the SRSLA Vice President – Membership, was recognized for his role in the organization's dramatic increase in membership over the 2013-2014 program year.



Aiken Technical College graduate John Strom is the first "Veterans to Careers" program intern hired at SRNS.

Former Air Force medic gains skills at SRNS through 'Veterans to Careers' program

SRNS recently hired the first intern through the Veterans to Careers Program (VCP), an initiative that began in 2013 as a collaboration with Aiken Technical College (ATC), the University of South Carolina Aiken (USCA) and the Aiken-Augusta Warrior Project (AWP) to connect student veterans with part-time jobs in their field.

The MOU addresses how to bridge the gap between academia and the workplace by connecting veterans with hands-on experience in science, technology, engineering and mathematics (STEM), and business management.

John Strom, the first VCP intern, served as a medic in the Air Force for four years and was hired into the SRNS Tritium organization during his last semester at ATC. Strom graduated with an engineering graphics degree in May 2014, completing the program in just two years. During his internship, Strom edited computer-aided design (CAD) drawings and specifications; he is pursuing a career in plant design systems.

"I want to learn as much as I can, contribute to my group and grow as a professional," said Strom. "My internship has already given me the opportunity to build on the design process that I learned at Aiken Tech, and this experience has given me confidence in my field."

SRNS provides information to USCA and ATC about STEM and business management internships, and the colleges match veterans who are full-time students with a GPA of 2.5 or higher with the internships at SRNS. AWP assists veteran students with the internship application process and promotes awareness of the VCP.

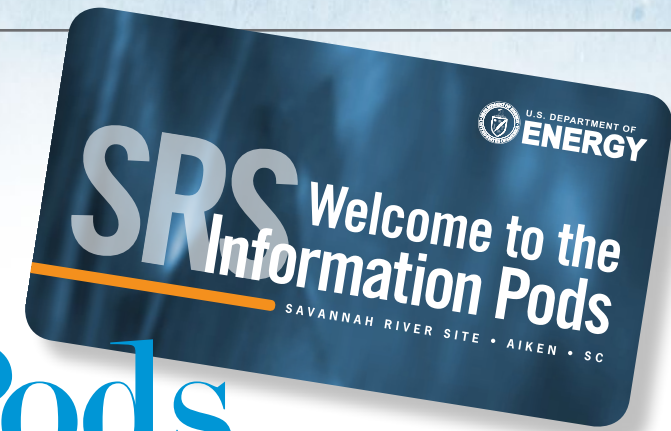
"The goal of the program, from our perspective, is to help our students acclimate to the civilian workforce," said Gemma Frock, Vice President of Education and Training at ATC. "It's a win-win for the academic community and the employers."

Strom has already gained skills that will enable him to check CAD drawings and blueprints against the corresponding machinery and structures in the field and will have opportunities to help cross-train fellow employees, according to his manager Leah Stanley.

"The VCP allows veterans like John, who was still in school, to gain experience in the workplace. He was able to earn his degree while contributing to our group here at Tritium," said Stanley, Configuration Management Lead for Tritium. "We have been pleased with what John has been able to accomplish in such a short period of time."

SRNS has provided support in the past that focused on the needs of veterans. In 2011, SRNS and SRNL worked with the CSRA Wounded Warrior Project under the Wounded Warrior Support initiative, which offered internships to help veterans prepare to return to the workforce.

a night at the InfoPods



SRS takes Pods on the road to Barnwell, S.C.

Residents of Barnwell County (S.C.) and the surrounding areas attended the SRS Information Pods on June 12 at Barnwell High School.

The event provided an opportunity for Savannah River Site (SRS) subject matter experts to share the missions of the Site with the general public.

The Barnwell Chamber of Commerce, the Barnwell People-Sentinel, Southern Carolina Alliance and USC Salkehatchie co-sponsored the community event.



SRNL Associate Lab Director for Nuclear Materials Program Integration Rick Sprague discusses nuclear materials at SRS with attendees.

"The more you know about your background, the more you can know about your future."

Daniel Harvey

"The more information you have, the better off you'll be. The Information Pods explain what's going on in your backyard. I think this event allows you to find out why a lot of families live in Barnwell," said Daniel Harvey, Executive Director, Barnwell County Chamber of Commerce. "The more you know about your background, the more you can know about your future."

The event started with an informal poster session featuring the Savannah River Ecology Lab, WSI Savannah River Site, the Nuclear Workforce Initiative, and the Savannah River Nuclear Solutions Safety and Security program.

Following the poster session, four separate "pods" addressed the topics of nuclear materials management, waste management, environmental monitoring and restoration, and the Savannah River National Laboratory. Participants could attend two of the presentations.

Mary Jones described what she learned during the waste management pod. "I enjoyed the session. It informed me about how they handle the waste. I learned how they prepare the containers and store the waste in tanks," said Jones.



An Information Pod attendee receives a welcome packet from Duane Hoepker of SRNS Corporate Services.

Marra honored by Ceramics Society

SRNL investigator Dr. James Marra has been named the 2014 recipient of the D.T. Rankin Award for exemplary service to the Nuclear Environmental Technology Division of the American Ceramic Society (ACerS).



Dr. James Marra

Dr. Marra has been a member of the American Ceramic Society for almost 30 years. He started as a student member and served on the Society's Board of Directors from 2009 to 2012. The award was granted based on leadership within the Nuclear Environmental Technology Division, professionalism, and participating in technical activities and innovation.

This award honors the late Tom Rankin and recognizes an ACerS member who has demonstrated exemplary service. Rankin was an employee of SRNL and a pillar of the ACerS Nuclear and

Environmental Technology Division. He served as chairman of the division and spearheaded the efforts within the group to encompass environmental issues and technology. Rankin also worked within the society to expand the division's reach in the environmental area, as much of the work of the division membership involves applying ceramic technologies to waste management and environmental remediation. Rankin passed away in 1999.

Dr. Marra said the award has great value to him in that he and Rankin were co-workers and friends. "This is the most meaningful recognition I have ever received in my career. Tom provided me many opportunities and was a trusted advisor and friend along the way. I am very proud and humbled to win this award. Tom hired me at SRNL in 1990 and was my first supervisor."

According to Dr. Marra, it was at Rankin's encouragement that he became an active member of ACerS. "He was truly a mentor and was the one who got me involved in the American Ceramic Society. Although I was a member, I had not participated other than attending conferences. I was working again for Tom when he passed away. Tom was an inspiration and this award means a great deal to me."

The award will be presented in October 2014 at the ACerS Annual Meeting in Pittsburgh.



SRNS President and CEO Carol Johnson addresses SRTE employees at the safety celebration.

Tritium celebrates safe completion of ice storm recovery plan

Hot weather may have arrived, but Savannah River Tritium Enterprise (SRTE) personnel still had icy weather on their minds in early June. That's when they celebrated the safe completion of the work needed to recover from the impacts of last winter's "polar vortex." The SRTE safety celebration took note of the numerous distractions, unusual conditions and potential hazards that personnel safely navigated during the recovery and repair work, which lasted through May. SRTE was able to continue safely fulfilling its national defense missions without interruption, even during the time that portions of the fire suppression system were undergoing repair, necessitating a rigorous plan for controlling combustibles and heat sources.

SRNL names panel for chemical vapor, worker protection study

At the request of Washington River Protection Solutions, SRNL has assembled a team of recognized experts to perform an independent review of the chemical vapors program at the Hanford nuclear waste cleanup site in Washington state. WRPS is the Department of Energy contractor responsible for management and cleanup of nuclear and hazardous waste currently stored in underground tanks at Hanford.

The team is comprised of members from academia, industry, and government agencies, and includes a representative of the Hanford Atomic Metal Trades Council.

The team will be chaired by Dr. Bill Wilmarth, a senior scientist at SRNL. Dr. Wilmarth has 25 years of experience in nuclear material processing and over 15 years of experience in high level radioactive waste storage and processing.

The vice-chairman will be Dr. Andrew Maier, Associate Professor at the University of Cincinnati, College of Medicine, Department of Environmental Health. Dr. Maier is a Diplomat of the American Board of Toxicology, and a Toxicology Fellow for the National Institute for Occupational Safety and Health.

Team members also include a former Administrator of the Occupational Safety and Health Administration, former member and consultant to the U.S. Environmental Protection Agency's Science Advisory Board, and fellow and former president of the American Industrial Hygiene Association. The team assembled brings a wide range of expertise including the fields of air emission releases from storage tanks, worker safety, risk assessments and biological monitoring and modeling.

"The team members are internationally recognized leaders in their fields, and I appreciate their willingness to provide a fresh look at



Workers at the Hanford Site

Hanford tank farm occupational health and safety," said Wilmarth. "Our goal is to provide a set of independent recommendations that will help to reduce the likelihood of chemical exposures, and will improve overall workplace safety."

The team will assess the current situation with regard to chemical vapor exposure; review the current industrial hygiene program as it relates to chemical vapor exposure; and, provide recommendations and identify further enhancements to the WRPS programs and practices to eliminate or minimize worker exposure. The team will include a full assessment of the response to two prior technical reviews conducted in 2008 and 2010. A draft report is expected by the end of summer and a final report by December. DOE will release both reports unaltered to the public.

Dr. Iyer named Ceramics Fellow

SRNL's Dr. Natraj Iyer is among the 2014 Class of Fellows named by the American Ceramic Society.

Dr. Iyer is presently on assignment as a Senior Technical Advisor in the U.S. Department of Energy – National Nuclear Security Administration's Office of Global Threat Reduction.



Dr. Iyer

He is a recognized expert in nuclear fuel cycle management and has served on numerous related Department of Energy and International Atomic Energy Agency committees. He has 13 U.S. patents, and has authored over 125 technical papers and presented many invited papers and lectures globally in the area of materials and nuclear fuel cycle management.

He has served on editorial boards of journals including International Materials Review and on several University Engineering Advisory Boards.

He has been recognized with numerous awards including the George Westinghouse Innovation award, Fellow of ASM International, Fellow of Alpha Sigma Mu Honor Society and as part of the GTRI team that received the 2012 and 2014 Secretary of Energy Honor Awards.

Dr. Leishear named ASME Fellow

Dr. Robert Leishear, a fellow engineer with SRNL has been elected as a fellow of ASME.

Founded in 1880 as the American Society of Mechanical Engineers, ASME is a not-for-profit professional organization that enables collaboration, knowledge sharing and skill development across all engineering organizations.



Dr. Leishear

Dr. Leishear has authored or co-authored 52 publications, including articles in the ASME Mechanical Engineering magazine, the Mensa World Journal and various conference and Honors journal proceedings on failure analysis, fluid flow, structural dynamics, explosions, pump design and mixing. He has also authored a textbook published by ASME Press titled "Fluid Mechanics, Water Hammer, Dynamic Stresses and Piping Design."

He has taught classes from his book to hundreds of engineers and operators at SRS and continues to teach classes through ASME. His publications documented numerous cost savings, including a \$27 million team savings through the Six Sigma process.

time travel

Curation Facility is home to the history of the Savannah River Site

Walk through the doors of the SRS Curation Facility and travel back through time.

Opened in 2012, the Curation Facility is home to artifacts from the Cold War Historic Preservation Program (HPP). Tasked by the National Historic Preservation Act of 1966 to care for resources 50 years of age and older, SRS relies on the HPP to help repair and renovate buildings in a way that is sensitive to historic integrity. The HPP also collects artifacts from those buildings that must be torn down and, at times, from functioning buildings on Site.

"It's easy to get caught up in the day-to-day operations and to miss out on the history of SRS, especially for employees," said Melissa Jolley, curator. "The history of SRS is far-reaching with national and local significance and has impacted not only science and technology but also the development of the Central Savannah River Area. By preserving the Site's artifacts, the history is being preserved, and tangible objects can be used to illustrate the SRS story."

Some of the more interesting artifacts at the facility include a Hear-Here phone booth, a Heavy Water Components Test Reactor model (HWCTR) and a lead-lined bath basin.

The Hear-Here booth was used in areas where it was too loud to hear or be heard on a telephone. The walls of the booth were made with many small holes that absorbed the surrounding sounds, making talking on the phone possible. The booth at the curation facility was removed from the turbine deck of the 484-D powerhouse.

The HWCTR model went along with the blueprints for the reactor that was used for a short time in the early 1960s to help the Atomic Energy Commission learn more about using heavy water to moderate civilian power reactors. This 1959 model is constructed as two pieces, showing the above and below ground structure. The complete model stands approximately 8 feet tall and 3.5 feet wide.

The lead-lined bath basin was to be used in the event of a contamination incident at the Site. A stretcher and pulley system would have been used to lower the patient into the tub while the doctor stood behind a windowed lead shield for protection. The tub was never used.

These are just a few of the artifacts that can be found in the former warehouse, and more continue to arrive. Although the Curation Facility is not a museum, the facility will continue loaning artifacts and exhibits to area museums.

Photo: Curator Melissa Jolley makes notes about the construction of the Heavy Water Components Test Reactor model at the SRS Curation Facility.

To see historic photographs from the Site's beginnings, check out our "Throwback Thursday" posts on SRS social media sites. Find SRS on Twitter under @SRSNews; on Facebook by searching Savannah River Site; on YouTube by searching SRSNews and clicking on the link with the DOE seal; or on flickr by following Savannah River Site.



An SRNS fire fighter trains for "high angle rescues." (Photo, above) A fire fighter uses a manlift to reach the "victim" —a practice mannequin—far above the floor. (Photo, below) The fire fighter performs CPR as the manlift is lowered. (Photo, bottom) On the ground, the "injured person" is moved from the manlift to a waiting gurney.

SRNS fire fighters raise their skills—literally—during 'high angle rescue' training

If an employee were to suffer an injury, heart attack, or other medical emergency while working on a surface high above the floor, they would need the assistance of an emergency team capable of "high angle rescue."

By taking advantage of the Savannah River Tritium Enterprise's (SRTE) offer of the Tritium Extraction Facility's truck bay with its 60-foot-high crane deck, the SRS Fire Department was able to get valuable practice in this specialized rescue activity. The experience also enabled them to refine their response plan for this type of emergency.

In the training scenario, the "victim" (actually a mannequin) suffered a heart attack while working on the crane deck.

"Hosting the Fire Department training and practice has high value for us," said Daryl Hopperton of SRTE Emergency Preparedness. "Tritium employees go on the crane deck more than 60 feet off the ground on a regular basis to perform routine and preventive maintenance, so it is important to us to know that the Fire Department is trained to cope should the need arise." SRTE's emergency operations and maintenance personnel also took advantage of the experience to refine their response plans for this type of emergency.

"Rescue operations are always challenging, but high angles and elevated locations add another dimension to be considered," said Melanie Leopard, SRNS Emergency Services Manager. "To ensure that the SRS Fire Department remains ready and able to provide the exceptional care we have come to expect, training evolutions like those recently conducted in SRTE are used to reinforce and refine the techniques and practices needed to perform rescue operations in difficult situations such as those presented in the Tritium Extraction Facility."

She continued, "An added benefit is the increased awareness among Fire Department personnel and those in the operating facilities of what to expect from different responders when emergencies occur. We greatly appreciate SRTE allowing the Fire Department to conduct our training inside their facilities, adding a level of realism not easily found in other training venues."





high marks in education

More than 150,000 teachers, students reached through Education Outreach



(Photo, top) A Future City participant explains his project to the judges. (Photo, above) Over 7,000 area high school students attended CSRA College Night last year. Both events are managed by SRNS.

The impact that SRNS has on the region's education systems each year is immeasurable. During the past school year alone, hundreds of schools and more than 25,000 students and teachers were directly affected through numerous SRNS education outreach programs and events.

Since SRNS became the management and operating contractor in 2008, more than 150,000 students and teachers throughout the eight counties near the DOE site have benefitted from dedicated efforts of SRNS employees to help local students and assist area educators.

“Our programs are rich with opportunities to enlighten young minds and further enable our talented teachers who are so devoted to their students.”

Carol Johnson

“The SRNS Education Outreach Program is a highly valued resource that significantly and synergistically enhances our school systems in too many ways to list,” said Jeff Howell, Executive Director, Public Education Partners.

SRNS President and CEO Carol Johnson acknowledged that investing in local students is also an investment in those who one day may be SRS employees. “Our programs are rich with opportunities to enlighten young minds and further enable our talented teachers who are so devoted to their students,” said Johnson. “We realize the fundamental success of any school system is the teachers. We are actively looking for new initiatives to aid them.”

Many of the programs offered annually by SRNS are based on learning through friendly competition. They include the CSRA Science Fair, DOE Savannah River Regional Science Bowl and the Future City Competition.

SRNS annually holds an Innovative Teaching Mini Grants Program to provide financial assistance to area teachers. This competitive program provides grants to CSRA public and private elementary and middle school teachers for innovative ideas. During this past school year, grants totaling \$75,000 were awarded to more than 100 teachers.

“With the continued community support of SRNS, our students have had the opportunity to investigate and understand math concepts, reaching peaks in learning that have surprised even us,” said Nan Croft, Warrenville (S.C.) Elementary School. “Our hats are off to SRNS and their nurturing presence in our educational environment.”

Other SRNS education outreach programs stress the importance of science, technology, engineering and math (STEM). These STEM-intensive initiatives include the Traveling Science Demonstration Program, Science & Technology Enrichment Program, Innovative Teaching Mini-Grants, Introduce a Girl to Engineering and various workshops, tours, lectures and demonstrations.

One of the SRNS educational events that reach the most students each year is the highly popular CSRA College Night. This event is coordinated and managed by SRNS personnel and uses the help of many highly valued volunteers from several CSRA companies. Last year, over 7,000 area high school students participated in this annual event. More than 150 colleges and universities typically attend College Night, each manning an information booth. Over the years, more than \$275,000 in scholarship funding has been offered to students attending CSRA College Night.



Accepting the plaque for gold status as a Fit-Friendly Company by the American Heart Association were (from left) SRNS Disability Case Manager and Wellness Coordinator Terry Hanna and SRNS President and CEO Carol Johnson. Development Director for the CSRA Heart Walk Kayla Yates presented the plaque.

SRNS wins Fit-Friendly award

SRNS was recently recognized for achieving gold status as a Fit-Friendly Company by the American Heart Association in 2013. The Fit-Friendly program recognizes employers who champion the health of their employees and work to create a culture of physical activity and health in the workplace.

Some of the Fit-Friendly components that are available for SRNS employees include access to walking trails, a dedication to work-life balance, an on-site emergency response department, easy and safe access to stair wells, discounts to local gyms and access to information about healthy eating and exercise through Lunch and Learns.



North Augusta Chamber visits SRS

The North Augusta Chamber of Commerce Board of Directors visited SRS on June 10. Attendees included (front row, from left) Ken Kehr, Don Goggans, Chamber President/CEO Terra Carroll, Aiken County School Board member Ray Fleming and S.C. State Representative Bill Hixon; and (back row, from left) Kevin Toole and Jon Dawkins. The group heard an overview presentation on SRS and SRNL, and took a driving tour of the Site.



Smiley named as 'Red Cross Hero'

Savannah River Site Firefighter and EMT Tony Smiley received the Augusta Red Cross Heroes Award for saving the life of an unconscious woman while working out at his local gym. Smiley was honored along with 13 other Heroes at a breakfast on June 4. After the award presentation, Smiley (right) posed for a photo with SRNS Executive Vice President and Chief Operations Officer Fred Dohse.



SRNS presents funding to CNTA

Outgoing SRNS President and CEO Dwayne Wilson (left) presents a corporate check to Dr. Clint Wolf, Executive Director of Citizens for Nuclear Technology Awareness (CNTA) during CNTA's "Up and Atom" breakfast on June 4 at Newberry Hall in Aiken, S.C. CNTA is a non-profit, grassroots organization that provides factual information to the public about nuclear activities.



SRNS. Trusted.

For diligent environmental stewardship

For reducing the Savannah River Site's
Environmental Management operational footprint by a remarkable 85 percent

For successful remediation of more than 5,000 cubic meters
of legacy transuranic waste and its shipment out of South Carolina

For international leadership in the radiological cleanup
of Japan's Fukushima Daiichi power plant



Savannah River Nuclear Solutions.
Trusted to get the big jobs done.