



Savannah River
Nuclear Solutions, LLC
A Fluor Daniel Partnership

Questions? Contact us at 803.952.9584.

Welcome to our May edition of "SRNS News." This month, we're focusing on our safety record, some changes in our leadership and the many ways in which our employees give back to the community.



Our safety streak continues to grow. SRNS employees have exceeded

nine million hours of safely working without an injury causing time away from work. This underscores the dedication SRNS employees have for their own personal safety and the safety of their coworkers.

As noted on this page, our Executive Vice President Roger Eshelman announced his plans to retire from our company. Roger will be greatly missed, and we wish him the best in his well-earned retirement. Please see the full story for details. Our current Vice President of Nuclear Materials Operations, Fred Dohse, will assume the EVP post, and David Eyler, a newcomer to SRNS, will fill Nuclear Materials VP position.

Changes in companies happen, but one thing that stays the same is the willingness of SRNS employees to give back to the community. This month, you'll see that we've made life a little safer for the staff and kids at Children's Place, and through employee and corporate donations of food and funding, we're helping the Golden Harvest Food Bank fight hunger in our community.

Safety, leadership and generosity: these three traits help define SRNS. I hope you find this issue of the "SRNS News" informative and enlightening.

A message from Garry Flowers
SRNS President and CEO

In May 2010, SRNS Operations and Service Subcontractor employees continued to work safely, surpassing nine million safe hours without an injury causing an employee to lose time away from work.

9 million safe hours

SRNS news

SAVANNAH RIVER NUCLEAR SOLUTIONS

Eshelman to retire August 31; Dohse named as Executive VP

SRNS Executive Vice President and Chief Operations Officer Roger Eshelman has announced his intentions to retire as of August 31, 2010.

Mr. Eshelman was instrumental in the Fluor Daniel partnership's effort to secure the SRS M&O contract and has provided direction and leadership in the management and operations of SRNS over the past two years. He came to SRNS with over 40 years of experience in nuclear engineering. His knowledge and expertise in the project complexities of nuclear ship construction along with his superior reputation as a leader at Northrop Grumman Newport News made him ideally suited as chief operating officer. Effective June 1, 2010, Roger will transition to manage several special projects prior to his retirement.

Also effective June 1, 2010, Fred Dohse, Vice President, Nuclear Materials Operations, is assigned to the Office of the President and becomes executive

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K Cooling Tower implosion

See Page 2 for photos and story



Roger Eshelman



Fred Dohse

Eyler to assume VP post for Nuclear Materials Ops

David E. Eyler, a former senior engineer with the Defense Nuclear Facilities Safety Board and currently employed by Northrop Grumman



David Eyler

Shipbuilding, will join SRNS on June 1 as vice president of Nuclear Materials Operations.

Mr. Eyler is a graduate of the U.S. Naval

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SRS skyline changes with K Cooling Tower implosion



The SRS 185-3K Cooling Tower was demolished on Tuesday, May 25, under the Site-wide Footprint Reduction Initiative funded by the American Recovery and Reinvestment Act (ARRA). The tower, which was situated just east of K-Reactor, was built in 1992 to cool the water used by the once-active reactor in support of national defense initiatives. Standing more than 450 feet tall and 345 feet wide at its base, the tower posed a unique challenge to SRS project managers tasked with completing the demolition.

"The Cooling Tower demolition project is unlike any other closure initiative taking place at the Site," said Dewitt Beeler, SRNS director of Area D&D Projects. "It isn't every day that we deal with the demolition of a structure the size of the K Cooling Tower; it was clear

very early in the process that we needed expert help."

Controlled implosion of the tower was selected as the most effective means of getting the job done. The contract to complete the work was awarded to American DND, who hired an experienced team from Controlled Demolition Inc. (CDI), a Maryland-based company.

In all, more than 3,860 explosive charges were placed within predrilled holes along the lower 250 feet of the tower's concrete exterior. The charges were detonated in precise sequencing and timing to ensure the tower fell in the selected impact-zone.

With the tower down, the resulting rubble will be transported to an on-Site landfill for permanent disposal.

SRNS takes core value of safety to Children's Place in Aiken



SRNS employees built handrails in a day to enhance safety at Children's Place.

On a recent visit to Children's Place in Aiken, SRNS President and CEO Garry Flowers noticed that the building's back steps did not have handrails, posing a potential hazard to the workers and the children. At SRNS, safety is the number one core value. "We take safety very seriously at SRNS, both at work and at home" said Flowers. "When I noticed the discrepancy at Children's Place, a group of our Infrastructure employees were more than happy to rectify the situation."

Larry McCollum took the lead and met Joe Ormand and Rhonda Whitley at Home Depot at 7 a.m. on a Friday morning to purchase materials. By 3 p.m., SRNS volunteers had installed handrails on two sets of steps. "I'm very proud of our team and their willingness to give of their time to help out a neighbor," said Rob Gentry, Vice President of Infrastructure Services and Children's Place Board member. "They never fail to lend a hand and put others before themselves."

SRNS team members included Larry McCollum, Joe Ormand, Kevin Stoner, Rob Gentry, Steve Boan and Rhonda Whitley, along with Carla Caldwell, the Aiken County Project Vision Director.

Members of the Golden Harvest Food Bank recently visited SRS to pick up donations contributed during the site's annual food drive campaign. On hand were (from left) Barry Ford, Associate Director, Golden Harvest Food Bank (GHFB); Kay Benitez, GHFB Director of Corporate Relations for South Carolina; Clif Webb, SRNS Public Affairs Vice President; and Carrie Jones, GHFB Events and Food Drive Coordinator.



SRNS summer food drive helps Golden Harvest fight hunger locally

SRS raised over \$14,400 along with about 1,000 pounds of food during its annual food drive for the Golden Harvest Food Bank. In addition, SRNS announced a corporate contribution of \$15,000.

According to SRNS President and CEO Garry Flowers, the Site's past food drives have collectively yielded more than \$220,000 for Golden Harvest. "We're proud to support organizations like Golden Harvest in their efforts to end hunger in the Central Savannah River Area. As

employees at SRS, we want to do our part to provide much needed relief to those in need," Flowers said.

The SRS food drive is one of Golden Harvest Food Bank's largest, local fund-raisers. Golden Harvest is a private, nonprofit organization whose mission is to fight hunger by feeding hungry adults and children. Serving more than 30 counties in Georgia and South Carolina, the food bank has local warehouses in Augusta and Aiken.

...Eshelman, Dohse

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vice president and chief operating officer.

Mr. Dohse is a graduate of the U.S. Naval Academy and the University of Idaho, where he received a B.S. degree in Oceanography and a M.S. degree in Mechanical Engineering, respectively. Mr. Dohse served in the U.S. Navy for 30 years, attaining the rank of Captain. In addition to serving as the Commanding Officer of USS Memphis (SSN 6911) and Commander, Submarine Squadron 3, he held a number of key policy and leadership posts in national security, Naval Reactors, and the Navy's nuclear submarine fleet. Mr. Dohse also served as a military assistant to the President's National Security Advisor and was a deputy executive secretary to the National Security Council staff.

Since joining SRNS, Mr. Dohse has provided management and leadership for Nuclear Materials Operations.

...Eyler

Academy where he holds a B.S. degree in electrical engineering. He also has a M.S. degree in space systems technology from the Naval Postgraduate School and a M.A. degree in national security and strategic studies from the Naval War College.

Mr. Eyler has extensive experience in the management, maintenance and operations of the Navy's nuclear propulsion systems and facilities. He has a proven track record in process/project management, business and strategic planning, nuclear operations and waste management, and people development.



Site Vice President for Plant Vogtle 3 and 4 David Jones (left); Augusta Mayor Deke Copenhaver; and SRNS Public Affairs Vice President Clif Webb were in attendance at the Augusta Mayor's Economic Summit.

Augusta Mayor's Economic Summit features Webb as guest speaker

SRNS Public Affairs Vice President Clif Webb was one of four featured speakers at the first Augusta Mayor's Economic Summit, held May 19 at Augusta State University.

In his remarks, Mr. Webb told attendees that Richmond and Columbia Counties each received more than \$100 million in direct spending last year from operations conducted by SRNS, the M&O contractor at SRS. Although payroll was by far the largest source from SRS, procurement and SRNS contributions to the community from fee were also included. Mr. Webb said that there is currently more than \$8 billion in future missions at SRS related to plutonium over the next 20 years.

Mr. Webb was one of the four speakers invited by Augusta Mayor Deke Copenhaver to give an overview of the driving forces behind the economy of the Aiken-Augusta metropolitan area.

More than 300 attended the public event where they heard about the economic impact of current operations and future construction at SRS, Plant Vogtle, Fort Gordon, and the medical community.

Celebrity Waiter Night: SRNS Executive Vice President Roger Eshelman (left) and J.D. Chiou of SRNS Area Closure and Solid Waste Management sang for tips during the annual Celebrity Waiter Night, held at Houndslake Country Club. More than 150 people attended the event, which raised \$22,800 for Children's Place in Aiken, S.C.



SRNS sponsors Columbia County Post-Legislative breakfast

SRNS was the presenting sponsor for the Columbia County Chamber of Commerce's annual Post-Legislative Breakfast meeting at Savannah Rapids Pavilion on May 13.

The event, which was hosted by the Government Affairs Committee of the Chamber, invited Columbia County's State Senate and House legislative delegation to provide a wrap up of one of the most productive sessions in recent years. The keynote address was given by the newly elected Speaker of the Georgia House of Representatives, Rep. David Ralston (R-Blue Ridge).

More than 150 business representatives and county residents were welcomed in opening remarks by Clif Webb, SRNS Public Affairs Vice President. Webb assured Columbia County residents that the county "is on our radar screen" and will play an increasing role in the company's community outreach. Also attending for SRNS was Columbia County resident Pete Knollmeyer, Vice President for Strategic Planning.



Pete Knollmeyer, SRNS Vice President for Strategic Planning, and Susie Ferrara, SRNS Public Affairs, represented SRNS at the breakfast.



SRNS donates "Beautiful Places" to students: Paul McCormack (left), Regional Chief, South Carolina Department of Parks and Recreation, presents a copy of "Beautiful Places" to David Caver, Deputy Superintendent, Aiken County Schools as Barbara Smoak, Manager, SRNS Education Outreach, looks on. SRNS has purchased 61 copies for use by students throughout the Aiken County school system.



Reaching out to 'teach in'

Over 4,700 Central Savannah River Area (CSRA) high school and middle school students recently participated in an SRS education outreach program in an effort to help the students understand and appreciate the use of science and engineering in our world today. During a two-week period, more than 130 presentations were conducted by 54 SRS engineers at 26 CSRA schools as a part of the SRS Engineering Teach In program. Each year during National Engineers Week, engineers from around the country work together to encourage students to consider a career in engineering.



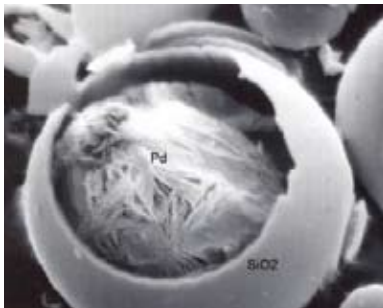
Hagan Capnerhurst, local regional science fair winner from Batesburg-Leesville High School, attends the International Intel Science and Engineering Fair in San Jose, California.



Students from Lakeside High School, Evans, Ga., along with their teacher, Charlotte Smith, recently represented the CSRA and South Carolina as 2010 Science Bowl regional winners during the 20th National Science Bowl in Washington D.C.

SRNL receives patent for hydrogen storage microspheres

A U.S. patent was issued for Savannah River National Laboratory's Hollow Porous-Wall Glass Microspheres for Hydrogen Storage, a technology that combines SRNL's extensive expertise in glass and hydrogen. Hollow glass microspheres have been used for years in light-weight filler material, insulation, abrasives and other uses. What makes these microspheres—invented by SRNL's Kit Heung, Ray Schumacher and



George Wicks—unique is the network of interconnected pores in the microsphere walls, which allow the tiny “microballoons” to be filled with, hold, and release gases and other materials.

Each microsphere is about 50 microns in diameter, about half the width of a human hair. Its walls feature pores that allow hydrogen to enter the tiny spheres and be stored or cycled on absorbents inside. The pore size can be controlled, to prevent gaseous or liquid contaminants from entering the microsphere. While SRNL's unique microspheres also show promise for other fields, this particular patent is specifically for their application in hydrogen storage.

A calculated change



New automated process in H Canyon improves productivity and reduces error risk

SRNS H Canyon has developed a new program called the Automated Procedure Calculation to help improve the job for Control Room Operators.

In the past, H Canyon Control Room Operators manually entered hundreds of procedure calculations each day. In fact, one of the frequently performed procedures for adjusting low activity waste included more than 300 data entries and calculations alone, which can be very labor intensive and dictate the pace of productivity.

The H Canyon Automated Procedure Calculation validates entries and performs all the general calculations, relieving control room operators of this labor-intensive task.

A pilot program was placed on-line in March of this year for the H Area Low Activity Waste Evaporator System. It resulted in a 65 percent reduction in the manual data actions, which reduced procedures by almost half. Based on the pilot's success, work is in progress to deploy this program for two other H Canyon evaporator systems by the end of this year. In addition, software certification is being pursued, so it can be credited for safety-basis calculations as well. Future versions will also automatically import raw data, such as sample analysis, further mitigating the potential for human error and saving time.

This innovation will reduce human errors and provide a financial return on investment. Increased throughput capability is expected to result in approximately \$7 million of life-cycle cost savings per year.



ARRA marks one year anniversary at SRS

April 2010 marked one year since SRS received \$1.6 billion in American Recovery & Reinvestment Act funding. Since that time, more than 3,000 jobs have been created or retained and businesses have received more than \$300 million in contracts. Small businesses have sold goods or services to SRS totaling \$215 million and \$116 million in contracts have been awarded within the CSRA.

