

CNTAware

June 2013

Volume 7, Issue 2

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2013 ANNUAL GOLF TOURNAMENT

The CNTA annual golf tournament was held at Houndslake Country Club on May 10 with twenty six teams participating. The weather was beautiful and a fun time was had by all.

The results were as follows:

1st Low Net - B&W Technical Services #2. Each player received a \$40.00 HCC gift certificate, an engraved curved glass trophy from Trophies Unlimited, a nice bottle of wine from Wine World and golf balls.



Ed Wannemacher, Fred Gamer, Jeff George and Loong Yong.

2nd Low Net – Penn Tool. Each player received a \$40.00 HCC gift certificate and golf balls.



Monty Glover, Karin Stoner, James Jennings and Kurt Beck.

3rd Low Net – LEAP (SRNS). Each player received a \$40.00 HCC gift certificate and golf balls.



Robert Sanders, Byron Bush, Tim Worrell and Matthew Howard.

Low Gross: SRNS #2: Ron Schroder, Jim Hanna, Paul Hunt and Gigi Magoulis. Each player received one dozen golf balls.

Last Place – Newport News Nuclear, Inc. #1: Pete Diakun, JC Wallace, Kathy Lewis and Jeannette Hyatt. Each player received a gift certificate for a free lesson with the HCC pro and a can of beer to ease the pain.

Closest to the Pin—

#3 – Colby Kight: ATC Rad Con team sponsored by Shaw AREVA MOX Services, LLC;

#8 – Chuck Bernhard: B&W Technical Services #1;

#13 – Bob Eble (AFS);

#17 – Clint Wolfe (CNTA).

CONGRATULATIONS!!



THANK YOU FOR YOUR SUPPORT!

We'd like to thank everyone for their support of the 11th annual CNTA golf tournament. As many of you know, this is one of our main fundraisers for the year. We are proud to announce that we raised \$17,000.00 to assist in our mission of educating the public about all things nuclear and supporting new missions at SRS. We hope you will continue to support CNTA and look forward to seeing on the golf course next year!



THANK YOU SPONSORS

B& W Technical Services
 Savannah River Nuclear Solutions
 Newport News Nuclear
 Shaw AREVA MOX Services, LLC
 AREVA Federal Services
 Craig Williamson
 Economic Development Partnership
 Energy Solutions
 Longenecker & Associates
 SRS Community Reuse Organization
 Trophies Unlimited
 WSI-SRS



THANK YOU VOLUNTEERS

Denton Adkinson
 Erna Arkin
 Mel Buckner
 Lyddie Hansen
 Jeannette Hyatt
 Joe Kelley
 Derrick McLane
 John Pavegio
 Wayne Rickman
 Tracey Sillito
 Susan Wood

Larry Adkinson
 Karen Bonavita
 Kim Cauthen
 Frank Heckendorn
 Eudora Joe
 Dava Maestas
 Jill O'Donnell
 Joy Price
 Donna Schroder
 Owen Stevens



THANK YOU TEAM SPONSORS

ATC Rad Con (sponsored by Shaw AREVA MOX Services)
 AFS
 Mel Buckner Team
 Will Callicott Team (SRNL)
 LEAP (SRNS)
 Penn Tool
 Thomas Ritt QA Consulting, LLC
 Savannah River Remediation
 Westinghouse
 Wolfe Team



THANK YOU DONORS

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 Antonio's
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 Houndslake County Club
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 P.F. Chang's
 RCS Nuclear
 Rose Hill Estates
 The River Club
 Toast Wine & Beverage
 Wine World

All Star Tents
 Bartram Trail
 Cedar Creek GC
 Harvard's Wine & Beverage
 Jim Harrison Gallery
 La Bonbonnie're
 Malibu Jacks
 Newberry Hall
 Prime Steakhouse
 Red Pepper Café
 Taste
 Therapeutic Massage
 Wife Saver Restaurant
 Woodside Reserve Club

Thank You to the staff of Houndslake Country Club



Thank You!

More photos can be found throughout the newsletter!

CNTA recently awarded scholarships to four local high school seniors for their outstanding submissions to the CNTA Annual High School Essay Contest. Students had three topics to choose from: “The Role of Small Modular Reactors in Developing Nations”; “The Origin and Value of Radioisotopes”; and “The Application of Nuclear Science and Technology in Medicine”. Eleven entries were received representing eight area high schools. All of this year’s entries were well written making the decision difficult. The selected winners represented three different counties in Georgia and South Carolina. Each winner received a \$1,000 award while their respective school received a \$500 reward. Thank you to the essay graders for their support, and a special thank you to the four sponsors who contributed monetary donations to make this contest possible.

Essay Contest Chair, Bill Wabbersen

AIKEN HIGH SCHOOL WINNER



Bryan Reichel is a senior at Aiken High School. He wrote his essay on “The Role of Small Modular Reactors in Developing Countries”. Brian plans to major in Engineering at Clemson University.

DAVIDSON FINE ARTS SCHOOL WINNER

Golda Nguyen is a senior at Davidson Fine Arts School. She wrote her essay on “Less is More: The Impact of Small Modular Reactors”. Golda plans to major in Mechanical Engineering at Georgia Tech.



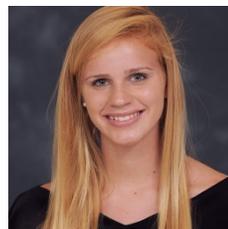
EVANS HIGH SCHOOL WINNER



Rahul Shah is a senior at Evans High School. He wrote his essay on “Nuclear Medicine: The 21st Century Breakthrough”. Rahul plans to major in Neuroscience and then attend medical school.

LAKESIDE HIGH SCHOOL WINNER

Jennifer Herbert is a senior at Lakeside High School. She wrote her essay on “The Role of Small Modular Reactors in Developing Nations”. Jennifer plans to attend the University of Georgia.



All essays can be read on our website, www.c-n-t-a.com, Education Outreach, High School Essay Contest. Congratulations to the Winners!!

COMMUNICATIONS INITIATIVE

by Clint Wolfe

There is a lot of activity in which CNTA is involved. We attend meetings of the Citizen’s Advisory Board, the Governor’s Nuclear Advisory Council, the Nuclear Regulatory Commission, the National Nuclear Science Week, Atomic Safety and Licensing Board, DHEC, NNSA, DOE-EM, etc. We regularly write letters and opinion editorials for the Aiken Standard, Augusta Chronicle, The State, Greenville News, etc. These opinion editorials are often picked up by Nuclear Town Hall and ANS Headlines, giving us visibility with hundreds of thousands of readers around the world. We conduct Teacher Workshops for middle and high school teachers, conduct the Robert Maher scholarship competition for college students and sponsor essay contests for high school students. Our dilemma is that we don’t have a consistent mechanism for

letting our membership know what we are doing if they don’t happen to read the right paper at the right time. We addressed this concern by forming a communication committee headed by Dean Campbell.

A communication plan has been developed under Dean’s guidance and principal authorship. The plan has many facets, but we are proceeding with a couple of the recommendations in the short term. First we will publish to the membership a regular synopsis of CNTA’s activities. Secondly, we will encourage our membership to write letters on topical nuclear matters. A great example of that is a recent letter in the Aiken Standard by Paul Dickson on the safety of used fuel transportation. CNTA will support letter writing by providing research and fact checking on the topic if needed. If letters identify the writer as a member of CNTA, the material should be

submitted to CNTA for review. We will always be willing to review prospective letters with, or without, attribution to CNTA. We can also help get them published.

If you would like to write a letter to the editor, but are not sure what topic to choose, contact the office or look on our website. We will have topics and pertinent factoids on several topics including SRS issues, education, nuclear energy, etc. on our website very soon.

This communication initiative is aimed, not only at keeping our membership informed, but also at utilizing the tremendous knowledge base that resides in our members. We would like very much to have every member commit to writing at least one or more letters to the editor per year. Try it – You’ll like it!

UP & ATOM BREAKFAST PRESENTERS



APRIL



Dr. Michael Corradini
President American Nuclear Society

“American’s Energy Challenge: Why the U.S. Needs Nuclear Energy”

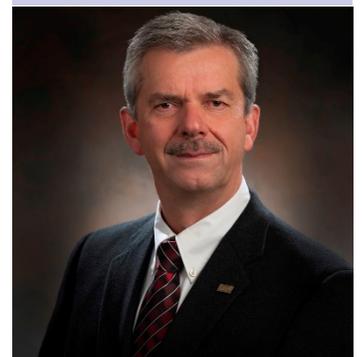
MAY



Rick McLeod
Director, SRS Community Reuse Organization

“A Perspective on Managing the Nuclear Fuel Cycle”

JUNE



Dr. Terry Michalske
Director, SRNL

“SRNL: Serving the Nation and Opening the Aperture for SRS”

EDUCATING FOR NUCLEAR'S FUTURE – A SUCCESSFUL REGIONAL PARTNERSHIP

by Mel Buckner, Education Committee Chair

The CNTA Education Committee and the American Nuclear Society-Savannah River (ANS-SR) section have jointly developed and implemented a workshop for middle school and high school teachers called “Bringing Nuclear into the Classroom”. The first teacher workshop was held in March 2009. Sessions were taught by CNTA and ANS-SR volunteers with diverse and extensive experience in the field and in the classroom.

Since then, the workshop has been improved and updated to include more hands-on activities that teachers could potentially use to excite students in their classrooms based on teacher feedback through participant survey results and comments. The current workshop includes hands-on styled presentations featuring the following topics: Atomic Fundamentals, Power Generation Fundamentals, Nuclear Fundamentals, Nuclear Technologies, Relative Risks, and

Regional Nuclear Technology Uses and Opportunities. Also, CNTA and ANS-SR partnered with the local Health Physics Society, the Ruth Patrick Science Education Center (RPSEC) at USC-Aiken, Energy Solutions, SRS Community Reuse Organization (SRSCRO), and the Aiken Rotary Club to make this a community-wide effort.

During 2013, the teacher workshop, “Bringing Nuclear into the Classroom” was presented to 14 Columbia County teachers at Greenbrier High School on February 19. Another workshop was presented to 21 Allendale County teachers at the USC-Salkehatchie Learning Institute on May 17. The Ruth Patrick Science Education Center (RPSEC) will host a workshop for Aiken and Richmond County teachers on October 18. A second workshop for Columbia County teachers is being planned for the 2013-14 school term. Southern Company will include some of the “Bringing Nuclear into the Classroom” topics in a workshop for Burke

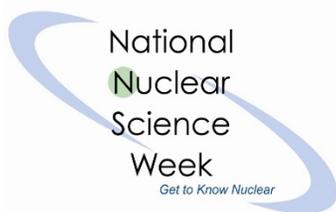
County teachers. In addition, workshop activities will be presented at the ANS Annual Meeting in Atlanta on June 19 as an example of a regional partnership to advance the awareness of nuclear technology and opportunities.

A subcommittee, under the direction of Rear Admiral Dean Sackett, reviewed and commented on draft National Science Standards that were issued earlier this year. Although their review was very extensive and time-consuming, most of their suggestions were included in the recently released National Standards. The next step is to make sure the SC standards are consistent with the National Standards. Thanks to Dean and his subcommittee members Joe Kelley, Doug Edwards and Greg MacDougall for a job well done.



NATIONAL NUCLEAR SCIENCE WEEK

by Mindy Mets, NWI Program Manager



The greater Aiken/Augusta region will be in the national spotlight during National Nuclear Science Week (NNSW), October 21-25, 2013. Annually, an area of the country serves as a focal point for the celebration that highlights the vital role that nuclear science plays in the lives of Americans and the world. Other locations have been the focus in years past, including the Illinois Institute of Technology and Washington DC. During 2013, attention will come to our region as

we join in recognizing the contributions of the nuclear science industry and those who work in it every day. From advances in nuclear power and nuclear medicine to the vast nuclear technology in use at Savannah River Site, our region has a great deal to celebrate. CNTA will hold the Annual Edward Teller Lecture during National Nuclear Science Week. In addition, students throughout the region will have the opportunity to participate in a variety of educational events including site visits, educational programs at Ruth Patrick Science Education Center and a special Workforce Development Day.

The SRS Community Reuse Organization (SRSCRO) is coordinating the planning for regional events that include nuclear employers and organizations

working in concert with the national steering committee.

National Nuclear Science Week is led by the National Museum of Nuclear Science and History, a Smithsonian Affiliate. The week is endorsed by the Department of Energy, industry partners and organizations throughout the nation. Stay connected with www.nwinitiative.org for current information about events in our region.



INDYCAR DRIVER HELPS NUCLEAR ENERGY LEADERS RAISE INDUSTRY AWARENESS

BIRMINGHAM, Ala., April 8, 2013 /PRNewswire/ -- Southern Nuclear employees received a visit on Thursday, April 4, from the Nuclear Clean Air Energy IndyCar race team, including all-star driver Simona De Silvestro. Several hundred employees attended the event and had their photographs taken next to De Silvestro, who began the racing season with a sixth place finish at St. Petersburg. De Silvestro and the race team were in town to compete in the Honda Indy Grand Prix of Alabama at the Barber Motorsports Park.

In addition to chatting about her experience driving the carbon-neutral Nuclear Clean Air Energy race car, De Silvestro spoke with employees about the importance of Science, Technology, Engineering and Math (STEM) education, linking STEM education to the technology behind racing and clean energy.

"A lot of people recognize solar and wind, but don't realize that nuclear power provides the majority of America's clean energy," said De Silvestro at the event.

"We need to keep talking to students to help them understand that science, technology, engineering and math are cool."

Steve Kuczynski, president and CEO, Southern Nuclear, said, "We appreciate AREVA, Simona and the Nuclear Clean Air Energy IndyCar race team for spending time with our employees while they were in Birmingham. This was an exciting experience for our employees. The event provided a valuable opportunity to work with an industry partner to increase the awareness and education of nuclear energy while showcasing Simona and the race car."

AREVA, a leader in nuclear energy and a significant, growing player in the renewable energies sector, is a sponsor of the Nuclear Clean Air Energy race car and arranged the visit to Southern Nuclear. De Silvestro signed with KV Racing Technology for the 2013 IndyCar season last October alongside veteran driver Tony Kanaan.

"The Nuclear Clean Air Energy car is a

great vehicle for raising awareness of forward-looking clean energy technologies like nuclear power," said Michael Rencheck, President and Chief Executive Officer, AREVA Inc. "Our partnership with Simona and the Nuclear Clean Air Energy Indy race team facilitates broader public discussions about clean energy and the importance of STEM education for the future of our industry."

Follow the results of De Silvestro and the race team on Twitter @simdesilvestro, on Facebook at www.facebook.com/simonadesilvestro, or on her website at www.simonadesilvestro.com.



VOGTLE'S HEAVIEST COMPONENT TO DATE MOVED INTO PLACE

by Rob Pavey, June 3, 2013

A 900-ton containment vessel bottom head for a new Plant Vogtle reactor was moved into place during the weekend.

The component was assembled from 58 steel plates made in Japan and shipped to the Burke County site over months.

Its placement into its "cradle" in the Unit 3 nuclear island represents the heaviest lift to date at the construction site, according to Georgia Power Co. officials.

The bottom head is about 38 feet tall and 130 feet wide and was assembled by Chicago Bridge & Iron before being moved into position by a heavy lift

derrick.

In April, the 460-ton Unit 3 nuclear containment cradle was moved onto the nuclear island, clearing the way for placement of the bottom head.

Plant Vogtle, which received the Nuclear Regulatory Commission's first combined operating license in early 2012, is the first commercial nuclear plant to be built in the U.S. in decades. About 2,500 workers are involved in the construction of two reactors.

The projected price of the Vogtle expansion rose from \$14 billion to more

than \$14.7 billion earlier this year, based on data provided to the Georgia Public Service Commission.



WSI CELEBRATES 30 YEARS AT SRS

by Rob Davis

In the summer of 1983, the Department of Energy awarded the contract for SRS security services to Wackenhut Services, Inc. The Wackenhut Corporation, led by founder George Wackenhut, had developed a reputation for providing quality protective services to a variety of Government agencies, including the Department of Energy and the National Aeronautics and Space Administration.

On May 22, WSI-SRS paused to celebrate 30 years of exceptional service to the DOE, the Savannah River Site, and our Nation. Paul Donahue, G4S Government Solutions President and CEO attended the event, along with senior SRS management.

“Your ability to serve the DOE over the years has been impressive,” said Mr. Donahue. “I extend my congratulations on your achievements over the last 30 years and



Paul Donahue, G4S Government Solutions President and CEO

wish you continued success in your critical mission at SRS.”

At the time of the 1983 contract award, SRS security was transitioning from an industrial model to a more rigorous paramilitary approach with advanced weaponry and tactics. With Wackenhut’s arrival, the site added a Special Response Team, Law Enforcement Department, Canine Program, Aviation Program, and advanced weaponry and tactical training.

“In 1983, when George R. Wackenhut was awarded our contract he stressed our success will depend on the quality of our people, our commitment to service, client satisfaction, listening to and partnering with our client, and in our ability to outperform our competitors in the delivery of quality and value added services in a responsive manner,” said Randy Garver, WSI-SRS Senior Vice President and General Manager. “These are our touchstones, and as we celebrate this special achievement we reaffirm our pledge to be the very best protective security force organization in the DOE complex.”

After George Wackenhut retired, the Company rebranded and G4S is now the parent corporation. Although Wackenhut is now known as WSI-SRS, our high-performing security team continues to provide cost-effective, quality service to DOE-SR. WSI-SRS achieved many firsts within the DOE complex. We led the complex in the development of response capabilities for chemical and biological threats. Our knowledge and abilities were invaluable during our response to the Graniteville train wreck that released chlorine gas into the community.

Our Quality Program received local, statewide and National recognition for our commitment to continuous improvement and total quality. We were recognized by the State of South Carolina for exemplary practices in support of diversity and equal opportunity. Also, the Department of Labor recognized us as one of top five employers in the Nation. We received National recognition for our Aviation and Canine Programs. None of this would have been accomplished without our employees’ dedication and desire to excel.

We take pride in having third party validations of our programs, ensuring that we are meeting National Professional Standards for performance. Some examples include:

- Our Aviation Program is certified by the Federal Aviation Administration
- Our working dogs are fully certified by United States Police Canine Association
- Both our Law Enforcement Department and Training Programs are accredited by the Commission on Accreditation for Law Enforcement Agencies. Only 1% of police agencies hold this accreditation.

Over the years, WSI-SRS responded to numerous challenges, but none greater than the days and months following the terrorist attacks on September 11, 2001. As we implemented response measures at SRS, our team worked tirelessly to ensure protection

of SRS assets and employees, and our employees did it well. This was a stark reminder of the threat to our Nation, and it was a confirmation that the WSI-SRS team was up to the challenge.

However, it is the day-to-day performance of our employees that has earned us a reputation for excellence within the complex. They responded very well to the big challenges over the years, but they also take their job seriously each and every day. Without that commitment, we could not be successful.

Finally, our employees fully understand that our responsibilities extend beyond the boundaries of SRS into the local communities in which we live. Over the years, they have given generously of their time, talents and resources to lend a hand to those who need assistance. Our employees are actively involved with United Way, American Red Cross, American Heart Association, Special Olympics, and many other charitable organizations. Their efforts are helping to build a brighter future for all citizens of the CSRA. They are leaders in our neighborhoods, community organizations, and places of worship. Most importantly, they do this not for personal recognition, but because it’s the right thing to do.

George Wackenhut’s legacy continues to live on today through our core values of People, Safety, Professional Excellence, and Customer Focus. We are an organization proud of what we achieved but totally focused on today. Our mission requires our men and women to be well-trained, disciplined, and ready to dominate any threat to the SRS.

This year, we celebrate our achievements, but we cannot rest on our previous successes. It’s more important than ever that we remain vigilant and committed to safety and security at SRS. With our dedicated team at WSI-SRS, we are confident that we will meet all future challenges with the same commitment that has driven us to success in the past.

**ROOF OF THE MOX FACILITY COMPLETED
OVER 100 OPENINGS REMAIN,
BUT WORK CONTINUES**



AIKEN, S.C., April 4, 2013 – The final layer of structural concrete was poured on the roof of the Mixed Oxide (MOX) Fuel Fabrication Facility recently, completing the exterior structure of the nuclear facility.

The 600,000-square-foot MOX facility is under construction at the Department of Energy’s Savannah River Site in Aiken, S.C. As a key component in the nation’s non-proliferation program, the MOX facility will convert surplus nuclear weapon-grade plutonium into reactor fuel for nuclear power plants.

“The completion of the roof and the exterior structure is an important milestone in the progress of MOX construction,” said Kelly Trice, president and chief operating officer of Shaw AREVA MOX Services, which is designing and constructing the facility. “We have much more work to do as we move to the next phase of the project, focusing on interior construction and equipment installation. Our 2,400 team members and more than 1,000 suppliers from across the country are proud to be a part of building this first-of-its-kind nuclear facility for our country’s national security.”

The 140,000-square-foot roof covers the process facility where production of MOX fuel will occur in a two-step process known as aqueous polishing and fuel fabrication. The process begins in the aqueous polish-

ing portion of the building where surplus weapon-grade material will be cleaned and purified during a chemical process. Manufacturing of the fuel takes place in the fuel fabrication section where the material is formed into MOX fuel pellets for reactor fuel assemblies.

More than 21,000 tons of reinforced steel and 138,000 cubic yards of structural concrete were used to construct the roof and the exterior walls.

With the exterior structure of the main process building complete, the project will focus on interior construction with installation of electrical, mechanical and heating ventilation and air conditioning equipment and systems.

The MOX building has over 100 construction openings to allow the installation of equipment. These temporary access ports will be closed up as equipment is installed.

The MOX project began construction in 2007. More than \$1.8 billion in subcontracts for supplies, equipment and services to over 1,000 businesses in 43 states have been awarded by the project to date.

Shaw AREVA MOX Services, LLC has a contract with the U.S. Department of Energy’s National Nuclear Security

Administration (NNSA) to design, build and operate a facility to convert surplus nuclear weapon-grade plutonium into reactor fuel for use in commercial nuclear power plants. This work supports NNSA’s nuclear nonproliferation program to eliminate nuclear weapon-grade plutonium in the U.S. Under a 2000 agreement, the United States and Russia will dispose of 68 metric tons of surplus plutonium, sufficient for approximately 17,000 nuclear weapons. For more information, visit www.moxproject.com.



Construction workers at the MOX project recently commemorated the “topping out” of the main process facility, symbolizing the completion of the facility’s roof.

**GOLF TOURNAMENT
PHOTOS**



SRS SALT WASTE PROCESSING: 5 YEARS OF SUCCESS

by Dean Campbell

AIKEN, S.C. (April 22, 2013) – Something unique in environmental risk reduction involving the processing of radioactive salt waste is taking place at the U.S. Department of Energy's (DOE) Savannah River Site (SRS) near Aiken, SC.

Savannah River Remediation (SRR), SRS's liquid waste contractor, is safely and successfully disposing of salt waste from massive underground storage tanks – as the only project in DOE complex to do so. The work means SRR is reducing the risk for its neighbors, a key component in the protection of human health and the environment.

Utilizing the latest in technology, SRR continues to treat and dispose of an inventory of approximately 34 million gallons of radioactive salt waste through separate waste processing and dispositioning facilities, the Interim Salt Disposition Process facilities along with the Saltstone Facilities and Saltstone Disposal Units.

To Operationally Close Cold War Waste Tanks, Removing Salt Waste Is First

Salt waste comprises about 90 percent of the waste volume in the tanks. Five years ago, the realm of operationally closing hazardous waste tanks began a new era at SRS with the inauguration of a new way to process salt waste.

Originally thought to be a salt processing system lasting up to three years, the salt disposition process continues to surpass earlier expectations and has positioned itself for continued operation as required by South Carolina permit, according to Dave Olson, SRR President and Project Manager.

“The salt processing facilities have surpassed expected operational results by processing more efficiently, at a higher throughput rate, and for a longer period than expected,” Olson said.

Placed into operations in April 2008, the SDP, which consists of two separations facilities – the Actinide Removal Process (ARP) and the Modular Caustic Side Solvent Extraction Unit (MCU), removes nearly all radioactive isotopes from the salt

waste and separates the salt waste into highly radioactive and decontaminated waste streams for dispositioning. The highly radioactive waste goes to the Defense Waste Processing Facility and the decontaminated waste goes to the Saltstone Facilities.

Salt Waste Processing is Key to Operationally Closing SRS Waste Tanks

Terrel Spears, Assistant Manager for Waste Disposition Project, U.S. Department of Energy (DOE)-Savannah River Operations Office, stated the salt disposition process has performed very well over its life.

“Our salt processing technologies, which have proven to be very effective in removing radioactive constituents from salt waste, are an integral part of DOE's strategy to complete tank closures and protect workers, the public and the environment,” Spears said. “Salt waste processing is key to emptying and closing waste tanks at SRS.”

The SDP marked a record production year in Fiscal Year 2012 by processing over 704,000 gallons of salt waste, more than 4,000 gallons over its target number of 700,000 gallons. Since placed into operations in 2008, salt disposition has processed over 3.5 million gallons of salt waste.

Salt processing is expected to be enhanced later this year when a new chemical extraction solvent will be incorporated in the MCU. The new solvent, called the Next Generation Solvent (NGS), will extract cesium from the salt waste at an efficiency more than 100 times greater than the existing solvent, thus allowing SRR to Increase its mission to reduce risk from the stored waste.

Saltstone Facilities Set Monthly Records

In October 2012, the Saltstone Facilities processed 664,129 gallons of decontaminated salt solution for a single month record and accomplished a two-month record in September and October 2012 by processing 1.1 million gallons of salt solution.

During FY12, Saltstone processed 1,251,312

gallons of salt solution and disposed of the waste on-site in concrete vaults. Saltstone's fiscal year target was 1.2 million gallons.

New Technology Aids in Success of Salt Waste Processing

On-site disposal of the decontaminated salt solution also has improved with the advent of the Saltstone Disposal Units (SDU).

The new disposal unit, SDU 2, comprises two separate cells that are circular in design, each holding approximately 2.9 million gallons of the cement grout. SDU 2 began accepting the cement grout in October 2012.

State of South Carolina Approves of SRS Work to Close Waste Tanks

SRR's success in salt waste processing, leading to operationally closing SRS waste tanks, has been instrumental in reducing the single greatest environmental risk in South Carolina, according to Catherine Templeton, South Carolina Department of Health and Environmental Control Director.

“We've worked hard with SRS and other federal partners to resolve many complex tank closure issues and reduce the risk of an environmental incident. This work has paved the way for the closure of Tanks 18 and 19, and for the remaining tanks to close at a faster pace,” Templeton said. “We look forward to a continued collaboration with SRS in laying the groundwork for more cleanup activities.”



Robert Brown, SRR tank farm operator, performs daily inspections of the Modular Caustic Side Solvent Extraction Unit (MCU). The inspections and improvement upgrades have resulted in continued successful operations at the MCU.

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PARSONS REACHES IMPORTANT MILESTONE IN CONSTRUCTION OF SALT WASTE PROCESSING FACILITY

Parsons is pleased to announce that construction of the Salt Waste Processing Facility (SWPF) is progressing and that the Central Processing Area roof membrane installation has been completed. "This is another significant milestone for SWPF," said Lou Jackson, Parsons Senior Vice President and SWPF Project Manager. "Despite the 2-year late delivery of the tanks, Parsons has met this target milestone with innovative engineering and construction work-arounds." The SWPF team continues to meet schedule milestones using mitigative measures accomplished by a highly qualified construction team.

SWPF is a key component to reduce risk at the Savannah River Site by removing,

treating, and disposing of the radioactive liquid waste stored in underground tanks. In 2003, the DOE awarded Parsons a contract to design, construct, commission, and operate for 1 year the SWPF to accomplish this important environmental cleanup initiative.

"Currently, Parsons has more than 665 employees dedicated to constructing the SWPF and ultimately cleaning up the tank farms at the SRS," said Jackson. "SWPF will use cutting-edge technologies to accomplish this task. Parsons is proud to be building a first-of-its-kind nuclear waste processing plant and to be helping the Central Savannah River Area go green."

Parsons, celebrating nearly 70 years of growth in the engineering, construction, technical, and professional services industries, is a leader in many diversified markets with a focus on defense/security, environmental/infrastructure, transportation, and resources. Parsons delivers design/design-build, program/construction management, and other professional services packaged in innovative alternative delivery methods to federal, regional, and local government agencies, as well as to private industrial customers worldwide. For more about Parsons, please visit www.parsons.com.



AIKEN TECHNICAL COLLEGE NUCLEAR QUALITY SYSTEMS PROGRAM

With the launch of its new Nuclear Quality Systems program in 2012, Aiken Technical College recently welcomed Bob Collins, a more than 25-year veteran in the nuclear industry, to its staff as a full-time faculty member.

Collins, who hails from Olar, S.C., has been with ATC since April 2013 and serves as an NQS instructor currently teaching the college's Nuclear Safety and Reactor Components and Systems courses this summer.

"I am excited about my role in new nuclear opportunities in this region of the country," Collins said. "A large part of the rebirth of nuclear depends on providing highly trained and capable nuclear workers to replace retiring workers at existing nuclear facilities, and new workers for those facilities currently under construction."

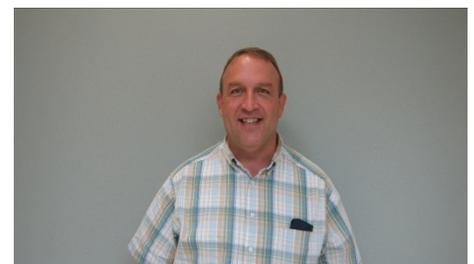
After serving in the U.S. Navy from 1980 to 1987, Collins was honorably discharged as a Machinist Mate First Class propulsion plant supervisor while serving on board a nuclear-powered ballistic submarine.

He worked for Westinghouse at the Savannah River Site for 20 years in a variety of positions, including program manager for the site's hazard analysis program, maintenance manager and maintenance training manager, maintenance instructor, and instructor/developer for General Physics in separations maintenance training. Since then, Collins worked as an operations training instructor with Duke Energy at the Oconee Nuclear Station for 18 months and received a Senior Reactor Operator Certification on the Babcock & Wilcox reactors. Most recently, he worked for Southern Company at Plant Vogtle's 3 & 4 reactors currently under construction. He served as the operations training lead and interim instructional technology supervisor responsible for developing and maintaining accredited training programs.

ATC's NQS program will offer two associates degrees with emphases in Nuclear Quality Control and Nuclear Quality Assurance, as well as certificate offerings in nuclear quality engineering principles, electrical and instruments/control nuclear

quality control inspection, nuclear quality assurance auditing and mechanical nuclear quality control inspection.

Though the NQS degree is still pending approval, students were able to begin general education and prerequisite requirements for the degree in the fall, and ATC plans to offer the Associate of Applied Science degree with a Major in Nuclear Quality Systems this year. The college has also offered an associates degree in Radiation Protection Technology, radiological control technology certificate and basic certificate in radiation protection technology since 2008.



Bob Collins is an NQS instructor at Aiken Technical

ENVIRONMENTAL MANAGEMENT BUDGET NOT A SMART REDUCTION TARGET

by Clint Wolfe



One of the great things about the Savannah River Site is that the people there always get the job done, professionally and safely – that is, as long as they are given the funding to make it happen.

That is the crux of the matter with respect to recent cuts proposed for the 2014 Environmental Management budget at SRS. The Department of Energy last month detailed the proposed budgets for the several environmental management sites across the country.

Ironically, the site that arguably has performed the best with respect to risk reduction and significant progress against goals is also the site that received the biggest proposed budget reductions – SRS. Although the proposed reduction of about 8 percent – \$107 million dollars – may not seem at first glance to be a show stopper, the manner in which the cuts are distributed has the potential to seriously impact several programs.

The removal of liquid waste from high-level waste tanks, production of high level waste glass canisters and millions of gallons of salt waste could be drastically reduced. This comes after a record year of accomplishments that included two high level waste tank closures and record glass canister and salt waste production.

From a totally economic point of view, the country would be much better served to accelerate these programs if we want to

save money and reduce risk.

Much of the cost of these programs is fixed, based on keeping facilities in a minimally safe condition, whether or not progress is made in processing liquid waste. Actual risk reduction gets accomplished with those budget dollars in excess of the fixed costs. When budgets get cut, it is the risk reduction dollars that get cut, so the impacts can be many times more than the apparent 8 percent reduction.

The budget cut at SRS comes almost exclusively from the liquid waste budget, or about 25 percent of that budget. If these cuts stand, most of the money will be spent, but relatively little of the scope will be accomplished. In fact, it is possible that other funded activities on site will produce waste streams in excess of the available budget capacity of the high-level liquid waste system.

This means that instead of reducing the inventory of high-level waste, we might actually see an increase in what our state regulators, the S.C. Department of Health and Environmental Control, believe is the most significant environmental risk in South Carolina.

Another, perhaps unintended consequence of these cuts is that the relationship between the DOE, the local community and the state of South Carolina is damaged. There are agreements between the DOE and the state that contain various

milestones – milestones that have been met in a timely manner, but future ones that now are in jeopardy.

It is conceivable that in two or three years’ time, the fines that the DOE must pay for missing these milestones will exceed the amount of the budget cuts. Where is the economy in that scenario? DHEC has been an important regulator of activity at SRS, and they have worked with the site to establish reasonable criteria for the clean-up mission. They will not be pleased by this betrayal of trust.

Then, add in the factor that our community will see the waste stay in the tanks much longer, increasing the chance of tanks eventually leaking into the environment.

For those who would say that this is merely the result of trying to get federal spending under control, I would say “go cut pork.” This budget is not “pork.”

SRS has done the nation’s bidding for more than 60 years, and has performed its role in an outstanding manner. Because of those missions that were and are critical to our nation’s security, legacy wastes have resulted. This is not Aiken’s waste or South Carolina’s waste – this is the federal government’s waste, and we need the budget restored to safely and effectively process this material.



GOLF TOURNAMENT TEAM PHOTOS



UPCOMING EVENTS

BREAKFAST AND DINNER SPEAKERS



JULY 24: **STUART MACVEAN, SRR**
UP & ATOM BREAKFAST
7:30—8:30 A.M.
NEWBERRY HALL



AUGUST 20: **SUZY HOBBS BAKER, POPATOMICS**
DINNER
6:00—8:00 P.M.
NEWBERRY HALL

22nd ANNUAL EDWARD TELLER LECTURE



OCTOBER 21: **MARV FERTEL, NEI PRESIDENT**
6:00—9:00 P.M.
USCA CONVOCATION CENTER



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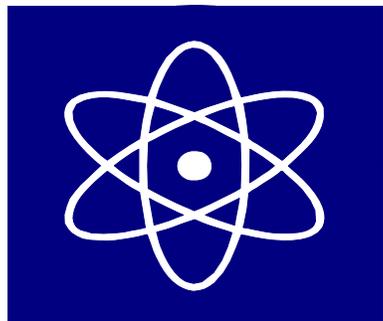
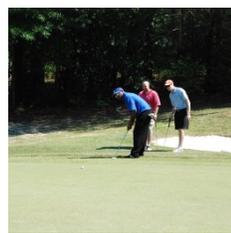


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