

SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC

*a site transformed
2008-2010*



Question:

How has Savannah River Nuclear Solutions (SRNS) transformed from 2008 through 2010?

The following highlights are just a few of the ways Savannah River Nuclear Solutions' accomplishments have transformed Savannah River Site in our first two years.

“ ...we will continue transforming SRS into a safer, cleaner, more productive, modern and progress-driven site. ”

Throughout the country and the world, rapid changes and improvements are occurring in industry. At the Savannah River Site (SRS), Savannah River Nuclear Solutions (SRNS) is not only keeping up, but also leading the way.

I came to the Site in 2009, along with a number of new leaders well known for excellence in their fields. We were welcomed by many who were already dedicated to the goals of the Site and who were ready to make an even greater impact.

We set out to improve safety, modernize business processes, reduce the Site's footprint, increase production, update computing and communication processes and reduce unnecessary spending in order to fund new projects and to better provide for existing ones.

Advancements can be challenging and require an open attitude, but that's what it takes to improve. It's working toward something new, something better. And as we have done over the past two years, we will continue transforming SRS into a safer, cleaner, more productive, modern and progress-driven Site.

As we enter our third year at SRS, we will focus on continued excellent safety performance with added emphasis on planning work effectively and preventing accidents, incidents and injuries. We will continue to shape our company to be more efficient, productive and responsive to our customer, and we will employ sound business practices in all aspects of our work, while we strive for growth and future opportunities for our company and this Site.

Garry Flowers
President & CEO
Savannah River Nuclear Solutions, LLC



 Savannah River
NUCLEAR SOLUTIONSSM
FLUOR DANIEL • NORTHROP GRUMMAN • HONEYWELL



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people

None of SRNS' improvements planned for SRS would have succeeded without the people who implemented the changes and adapted to the new tools and procedures.



When SRNS took over as the M&O contractor, Site employees began to see many changes for the better. Since 2008, SRNS simplified employees' daily tasks, making them easier and faster to perform, by providing them with up-to-date equipment and processes. Many qualified new employees were hired and many experienced site employees were retained. A larger emphasis was placed on employee engagement, management, staffing and recognition. And, new leaders brought fresh ideas for bettering the site and worked hard to implement them.

Transitioning the Leadership

SRNS brought nearly one dozen new leaders to SRS to direct focus on improvement and change. Many of these leaders brought a long history of experience from the corporate world or similar DOE sites to provide new perspectives on Site. Although their skills are diverse, they have all contributed their drive, energy and knowledge to encourage employees and broaden expectations Site wide.



“
How refreshing to work for a company that will show ALL their employees that they are appreciated.
”
Grici Cunningham, Tritium



Top: Garry Flowers shares a Bar-B-Que lunch with employees at the Safety Celebration

Middle: Senior management shows their appreciation to employees for their commitment to safety through song at the Safety Celebration

Bottom: Fred Dose speaks with a veteran at the 2010 Veterans Day Celebration.

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Revitalizing the Workforce

Since SRNS's arrival, engineering organizations have worked to better utilize their employees' expertise and prepare an experienced staff for the future. The Nuclear & Criticality Safety Engineering Department was established to replace subcontractors that were performing the work. Detailed schedules for all associated products were developed, where none previously existed. The first of its kind in the DOE complex, the Criticality Safety Engineer Training & Qualification Program was implemented. And, the Transportation Safety Document and Transportation Safety Question Process were created to establish the safety basis design and controls for packaging and transportation of radiological materials at SRS and to provide for resolution of emergent packaging and transportation issues.

The Engineering Department increased hiring and training of entry level engineering staff to address workforce aging issues and reinstated a cooperative engineering program with selected universities. All procedure writers attended an INPO course to be trained in procedure writing techniques. The Engineering Human Capital program was launched to address staff development, retention and replacement of the aging workforce.

“ I have seen many changes over the past 21 years, and the show of appreciation with such a substantial end of the year gift to all employees is one change that I greatly appreciate. ”
Roger Bates, Radcon & Safety



“ The “Meet the Managers” videos were a great way for the employees who may not get the opportunity to meet you face-to-face to know a little about you as a person. Thank you and your staff for sharing a little of yourselves with us. ”
Brenda Johnson, Accounts Payable



(Above) SRNS Chief Information Officer Phil Cirulli networks with young professionals at the LEAP kickoff event.

“
I am looking forward to meeting more of our young professionals. Leap will definitely help new hires to get the most out of SRNS.”
Charles Nickell, Director of Operational Excellence
 ”

Revolutionizing Employee Relations

SRNS understands that people perform well when they are treated well. When employees are engaged in their job and their company, when they feel they have the tools needed to adequately perform their duties and when they are recognized and appreciated for their dedication, a company will operate better and more productively.

To achieve this, SRNS Workforce Services created mentoring circles, launched a Coaching Matters training program to enhance interactive skills with employees, purchased a state-of-the-art performance management software tool and formed the Leadership Development Forum. First Line Management training is offered on a monthly basis, instead of sporadically as before, and involves multiple senior level managers. Brass Ring software was implemented to streamline the staffing process, eliminating the antiquated, nonintegrated, 20-year-old manned system.

Leaders Emerging Among Professionals (LEAP) was created to address the needs of young professionals at SRNS, identifying career opportunities and providing a channel of communication to upper management. At the kickoff event, 112 participants and 18 representatives from senior management attended to show support for this peer-developed and peer-led mission.

To reward employees for their hard work, SRNS used \$5 million of corporate dollars to create an Rewards & Recognition Program, to distribute funds to projects and functions for teambuilding and celebration of project completions and to create a year end recognition for all employees based on performance of the company.



Marking their two-year anniversary at the Site, SRNS invited all employees to enjoy a Green Jackets baseball game in August 2010. Employees and their guests received tickets to the game, hot dogs and drinks, seat cushions and ball caps in appreciation for their dedication.

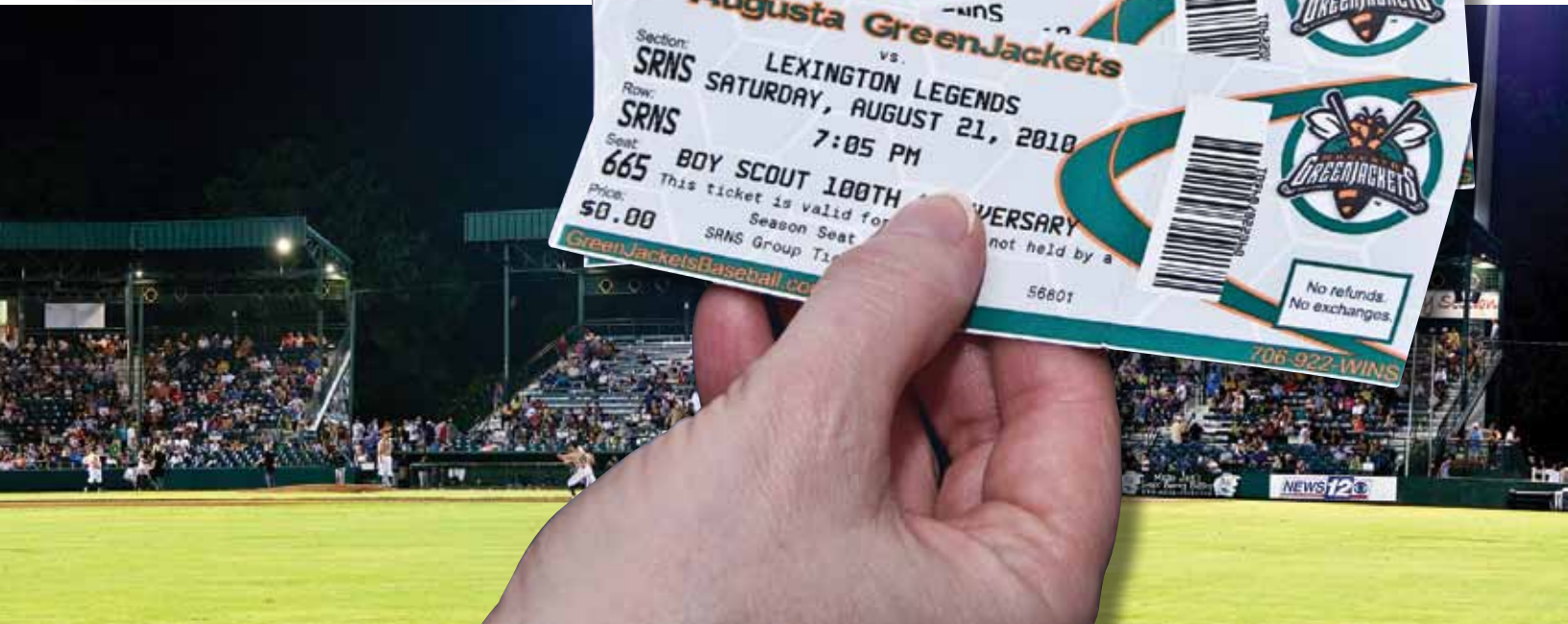
“
Thank you for the baseball game; I enjoyed it! I appreciate you thinking of me and the rest of the troop.
Craig Baynham, General Council
 ”

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“
 We really appreciate what you and your staff are doing at SRS by including everyone in the celebration of the success of the company. The safety recognition lunch was well organized and the food was delicious.”
 Brenda Johnson,
 Accounts Payable

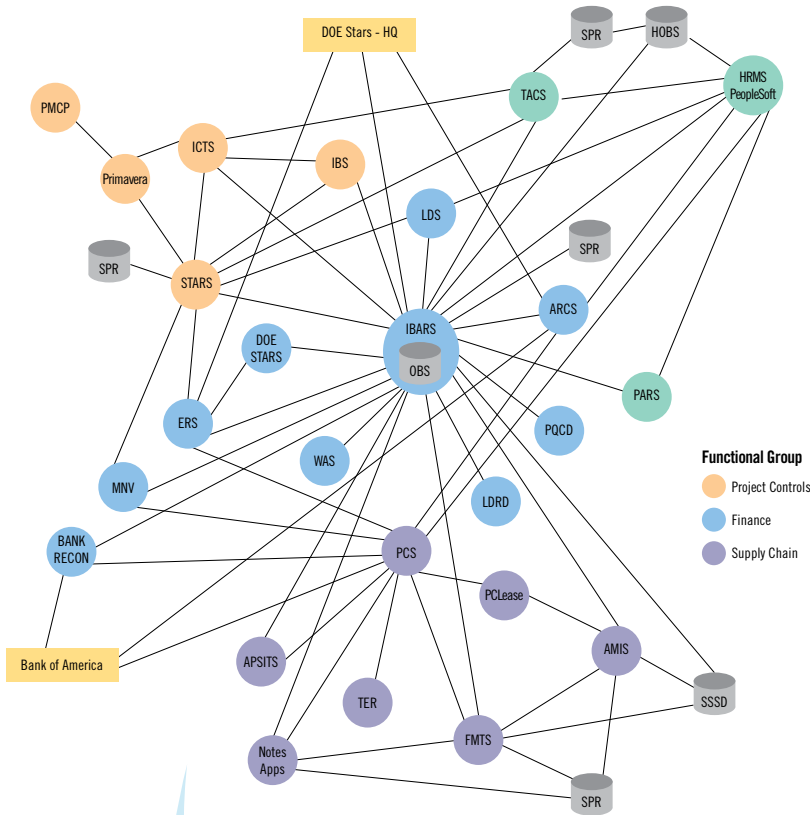


Above and Right: Employees enjoying food and fun at the Safety Celebration



systems

The systems used for daily work can slow progress through wasted time and effort or can simplify and expedite daily tasks. SRNS has, is and will continue working to streamline the systems in need of optimization.

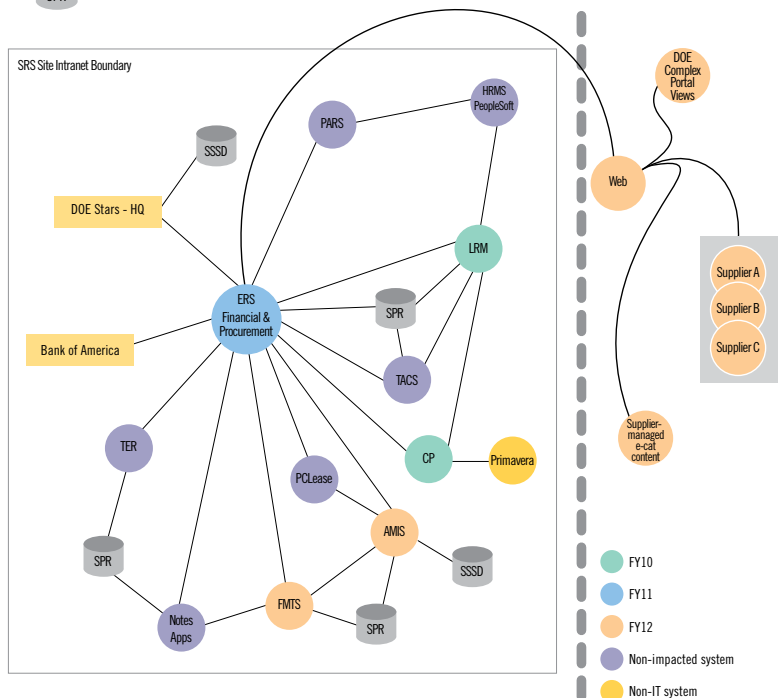
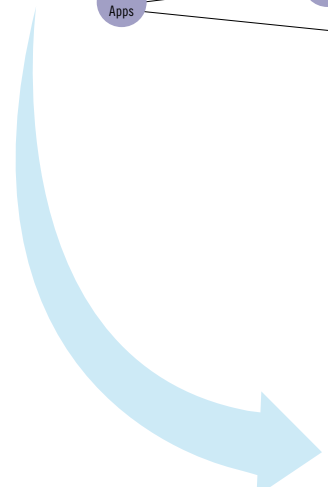


Making it Modern

The Business Process Modernization Project implemented a new comprehensive suite of integrated business systems to enhance management controls that address cost accountability, transparency and industry standard best practices.

The team streamlined SRS business processes and software applications by modernizing Project Controls, Finance and Supply Chain business areas. The project directly benefited end users, buyers and warehouse employees, who saw a reduction in the number of processes, as well as numerous improvements in systems and work practices.

To achieve a modernized end state, the Business Process Modernization Process eliminated 30 processes and retired 13 applications



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Enhancing the View

InSite replaced ShRINE in January 2010 with significant improvements. Information Services streamlined the organization, modernized the look, added weather updates and provided a paperless medium to disseminate information to employees, including important timely announcements and informative stories about SRS activity. Keeping in line with SRNS's focus on improvement, quickly after InSite was published on line for employee use, plans were made to better it. Implemented in October 2010, the second version allows for customized portals that give users the ability to keep their most used InSite applications on their view.

Bottom to Top: ShRINE (since 1990) / InSite 2010 with information, news and weather updates / InSite 2011 with customized portals



“ InSite is a great new tool. It's navigation is very intuitive and, even though it's less cluttered, it still has more information. I really like the way it uses the tabbed browsing; it makes multiple searches much easier. ”
 Greg Burkes, Financial Operations



Top to Bottom: "Home-grown" PIN authentication for every application, Active Directory authentication for many applications, Single sign-on

Working Smarter, Not Longer

People can only work as fast as their slowest tools or programs allow, and typing a password to open every computer application reduces employee productivity by slowing work speed. Single Sign-On is a comprehensive SRNS initiative begun in FY 2010 to reduce or eliminate many of the logins required for daily computer usage. Implementations have ranged from custom programming to commercial solutions, one of which has eliminated 26 required logins for DOE users. Logins for many Site web applications have been eliminated through programmatic Active Directory authentication, with the goal of eventually requiring only a single login for all applications.

Another impediment to efficiency in the workplace was the employees' inability to connect with their computers from off Site. This improved in 2005, when VPN broadband was introduced to provide access to onsite applications and systems through government laptop computers with internet connection. But upon arrival, SRNS quickly saw the need to advance further. Since March 2010, key applications and programs are now accessible from external, non-government furnished, personal computers using Citrix XenApp.

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Advancing Business Services

In SRNS's first two years, Business Services worked to increase cost transparency, reduce wasted labor and better utilize dollars spent. The old policy of accounting for purchased equipment in Site overhead was transitioned to charge the programs supported by the new equipment, which reduces Site overhead and increases project accountability.

To eliminate manpower, modern financial, project control and procurement tools were implemented; the compressed gas and cryogenics program was awarded to a single contractor and the legacy Site fee invoicing system was automated.

From 2008 to 2010, Business Services' commitment to small businesses increased by 57 percent to a total of nearly \$350 million. To further that effort, the small business mentor protégé program was strengthened and an ARRA Small Business Forum was conducted for small businesses, with over 600 companies and individuals attending.

Business Services also advanced by using new techniques, making the first SRS shipment of hazardous waste compressed gas cylinders containing small lecture bottles to a treatment, storage and disposal facility. This improvement opens a new disposal path for future use.

Simplifying the Budget

Finance established a Unit Bill System to distribute costs, based on usage, to end users, enabling them to see what they pay for and assess the cost versus the benefit. This system has the potential to reduce site variable costs if end-users reduce demand for services. An Indirect Integrated Priority List was also established to eliminate conflicting priorities. And, through modified systems, employees (direct and indirect) now charge their time where they work.

“ I like the new Site cell service because it lets me get rid of my pager, as my Blackberry can receive pages from computers and text messages!”
Mtesa Wright,
General Counsel ”



Keeping up with Technology

The cell phone has evolved from a luxury toy, to a common tool and, now, to a business necessity. SRS has stayed current with these progressions, using Blackberries to keep employees in touch with one another and their SRS email accounts. But until SRNS pushed for improvements, cell phone coverage on Site was minimal. After the changes, most of the Site now has full service for Verizon phones.



Site cell phones have improved from only basic call and email functions to being equipped with a camera, GPS, open internet access, text messaging, Bluetooth and applications. Also, cellular coverage has dramatically increased Site-wide.

landscapes

Old equipment and buildings still in use needed to be updated and those that were not used but were expensive to maintain needed to be removed.

Evolving the Infrastructure

Built in the 1950's, many SRS facilities are being used much longer than originally planned. The infrastructure at SRS represents a multi-billion dollar investment in facility assets. Most current Site missions extend into FY2020, and several extend to FY2030 and beyond. These assets must be well maintained to operate safely and effectively, to protect their functionality and quality and to provide a safe, healthy and productive environment for employees and the visiting public.

infrastructure and systems at SRS; however, there was no process in place to quantify or identify the improvement priorities.

Since 2008, programs and plans have been developed to address and prioritize planning for infrastructure modernization. Infrastructure Services (IS) completed the Facilities' Life Cycle Master Plan for 14 systems that make up Site Infrastructure. IS issued the Comprehensive Infrastructure Mission Alignment Plan (IMAP) in FY10, helping to maximize the beneficial use of available resources by aligning infrastructure lifecycle activities with SRS present and future missions and providing a consistent basis for making decisions regarding ongoing infrastructure systems' maintenance and operational needs.

A \$925,000 Site project to replace fuel dispensers, computers and card readers in A, F, H, and N Areas and Forestry was completed. In A Area, some of the equipment was up to 25 years old, causing the dispensers to be slow and unreliable and generate approximately 30 service requests daily.

Over the past 10 years, spending for infrastructure upgrades declined considerably as budget pressures increased. Many of the systems degraded to conditions that now require major upgrades. Before 2008, general assumptions were made concerning the deteriorating condition of the



“ Since 2008, programs and plans have been developed to address and prioritize planning for infrastructure modernization. ”

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Cleaning the Land

The American Recovery and Reinvestment Act provided funding to support clean-up missions at SRS. SRNS used this money to deactivate and decommission areas, remove radioactive and hazardous material, and reduce the EM footprint by 36 percent, or 113 acres, since 2008.

M Area, once used for the production of special nuclear materials in the 1950s, was the first ARRA Area Closure and completed two years earlier than planned. Area Completion Projects safely and successfully imploded the K Cooling Tower and made significant progress placing over 100,000 cubic yards of grout at P and R Reactors and making 81 shipments of transuranic waste (800 cubic meters) to the Waste Isolation Pilot Plant.



K Cooling Tower was one of seven industrial buildings demolished.

“

This is one of the many facilities that, under the Recovery Act, we're taking the opportunity to deal with, to reduce a long-term liability for the tax payer and, at the same time, provide some economic stimulus to the local community.

Dewitt Beeler - D&D

”



M Area closure was accelerated by two years.



Before (Left) and after (Below) the damaged precipitator hopper was repaired.



“
The reliability of the D Area Powerhouse is crucial to the successful operation of critical Site missions and had to be improved

*Wayne Gleaton,
Site Infrastructure*

Increasing the Power Supply

Improvement projects at the D Area Powerhouse have helped to increase electrical and steam generation capability for mission-critical exportation to Site areas.

Operating since 1950, the D Area Powerhouse was not intended for use past 2005, but because the planned replacement of the Powerhouse was delayed until FY2012, the Powerhouse had to continue operations to meet Site needs.

Infrastructure Services identified and completed eight scopes of work to enhance the continued operation of the D Area Powerhouse until the replacement Powerhouse is completed. The improvements benefited the Site by eliminating the cost of purchasing energy from SCE&G and incurring additional fees for over usage. The reliability of the powerhouse was also significantly enhanced.

“
Completion of the FY10 eight scopes of work by SRNS is already contributing to the successful operation of the Powerhouse with availability of two boilers over 99 percent and no steam or electrical interruptions to our customers.

*Wayne Gleaton,
Site Infrastructure*



Before (Left) and after (Below) the deteriorated pre-heater tubes were replaced.



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Approaching Issues From A New Angle

SRNS Infrastructure Services made significant progress supporting the Real Property Asset Management (RPAM) Program and Landlord Services initiatives documented in the 2010 Performance Evaluation Measurement Plan.

A comprehensive ten-year Site plan, based on clear objectives, sound data and effective communication, was developed to link the real property asset management functions to the accomplishment of all Site missions, with particular emphasis on specific areas. SRNS continued to improve accuracy and completeness of collected data.

An integrated (landlord) approach assessed real property assets against the long term Site mission requirements and identified projects and activities supporting Site missions. A ten-year forecast defined the activities and projects that put the Site on track to satisfy identified long-term mission needs. Facilities were designated according to mission criticality and projections for when facilities would become excess and available for disposition, based on mission needs.



Sustaining the Site and the Environment

Since 2008, SRNS has continued to focus on sustainability and aggressively pursue a reduction of environmental impacts and Site costs and extend the benefits to employees and the community both today and in the future.

In FY2010, 23 Pollution Prevention projects were documented and approved for credit, which resulted in 838 cubic meters of hazardous and radioactive waste avoidance/diversion. SRNS also initiated development of a Greenhouse Gas Emissions Inventory to track and report reductions.

Maintenance of SRNS Wastewater, Stormwater and Administrative Outfalls was consolidated under Infrastructure Services; ensuring that consistent standards are maintained for environmental excellence, improving regulatory communications and positioning the Site to more effectively address changing requirements.



Employee taking a water sample



SRNS employees analyze a core sample

operations

How the Site operates determines how successful it is, and through SRNS, it has become safer and more efficient.

“

We would like to congratulate you and the employees of Savannah River Nuclear Solutions for your demonstrable pursuit of excellence in safety and health and for achieving recognition at the Star level in the DOE VPP

”

Ensuring Safety Above All

SRNS had the “Safest” Total Recordable Cases (TRC) Rate for Operations & Subcontractors under the current DOE Reporting structure since 1985. Both LWC/DART and TRC recordable rates were reduced by approximately 60 percent from 2008 to 2010.

Operations & Subcontractors were recognized by the National Safety Council for achieving 10 million hours without a lost time injury and Construction has not had a lost time injury in 12 years, or over 24 million hours. And, DOE awarded SRS the VPP STAR of Excellence and the Legacy of STARS at the ISM Workshop. Held in the CSRA for the first time, the Integrated Safety Management (ISM) Workshop was hosted by SRS in 2010 with over 1,000 attendees and 180 speakers.

To further involve employees, SRNS held a Safety Blitz, an event in 2010 with 1,400 participants. Focusing on safety, the event integrated Behavior Based Safety, Human Performance Indicators and local safety improvement teams to work with the newly formed Operational Excellence Organization.

Left: Garry Flowers accepted the Voluntary Protection Program (VPP) Star Status certificate and flag at the ISM Champions Workshop on behalf of SRNS. This is the highest level of safety recognition in DOE's VPP.



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Progressing Tritium Missions

Tritium Programs continued their perfect record of on-time, high-quality reservoir shipments, while accomplishing a 50 percent greater Tritium workload in FY2010 with a 20 percent smaller staff than in FY2008.

For their efforts to improve efficiency and save money, Tritium programs safely implemented TEF "Responsive Operations" to save \$12 million annually, realigned the protective force structure, to save \$2.8 million in FY2010 and \$4.5 million annually in subsequent years, and consolidated core functions in the direct management chain to save \$1.2 million annually.

Tritium programs also enhanced their operational discipline, showing an improvement trend that peaked in FY2010 with only one occurrence-reportable event. Both corrective and preventative techniques were implemented for the Comprehensive Conduct of Operations program.

By using a business model to drive results, Tritium Programs is sustaining improvements. New processes were implemented to ensure cost transparency, better communication, thorough reviews and an efficiency-focused plan. Tritium Responsive Infrastructure Modifications (TRIM) was applied to revitalize facilities for ongoing and new missions. Through planned changes based in TRIM, infrastructure vulnerabilities, annual operating costs and annual energy usage will be reduced.

Engineering Change

SRNS led the Engineering Department to make better use of their procedures, to eliminate unneeded operations and to better prepare their facilities for the future. The Automated Reservoir Management System (ARMS) for Tritium was improved through a \$7 million, four-year software upgrade project to replace an outdated software system.

An Automated Procedure Calculation System was implemented in H Canyon to automatically perform verification calculations for safety-related nuclear material, reducing manual calculations by 65 percent and saving approximately \$7 million in lifecycle costs.

The Sitewide Procedures Department was established to centralize procedure development and publication, to rationalize and reduce the number of procedures, to standardize procedure format and to reduce the overall cost of procedure development and maintenance.

Smart Plant Foundation (SPF), a single software package, was implemented for use in procedure development for all of SRNS, replacing multiple software packages previously in use. SPF not only consolidated many databases, but also increased the efficiency of individual engineers. Activities that had taken up to two hours to complete before, can now be done in five minutes. Through all of the changes, the 11,500 SRS engineering procedures were reduced by 25 percent.

Tritium Operations produced 50 percent more work in 2009 with 14 percent fewer people.

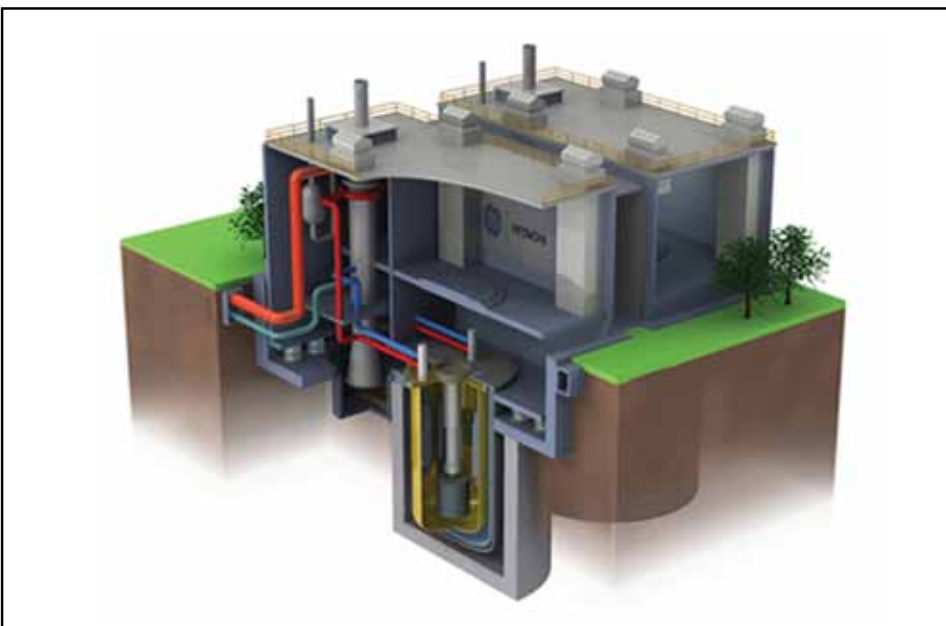


Planning Strategically

In 2008, no overarching concept or goal existed for Site re-utilization, energy production or greenhouse gas emission reduction. But by 2010, SRNS had envisioned the U.S. Energy Freedom Center at SRS, to help DOE deliver clean energy technology, new small modular reactor technology, synthetic transportation fuels and hydrogen technology, to help the nation reduce its dependence on foreign oil, reduce dangerous green house gasses, achieve energy independence and produce clean energy jobs to ensure the health of the U.S. economy.

Not only was the Freedom Center envisioned by SRNS, but also three memorandums of understanding were signed with GE-Hitachi, Hyperion Power Generation and TetraTech to explore the potential of demonstrating small modular reactor technology and water initiatives at SRS.

GE-Hitachi PRISM



Improving the Improvement Process

Before the arrival of SRNS, the Site used some standard processes, such as Lean or Six Sigma, for improvement initiatives. But when the new M&O contractor took over, they took on the challenge of creating a comprehensive program to solve problems and eliminate waste.

In 2008, the Process Excellence group began conceptualizing the Continuous Improvement (CI) program as a way to encourage Site-wide advancement by combining the best improvement techniques from the parent companies for standardized use.

Recruits from across the Site became the members of the core team, CI Agents or Divisional CI Experts in 2009. With the support of upper management and the participation of 343 employees, 158 improvement projects were undertaken between 2009 and 2010. Nearly 800 employees were equipped to begin leading or participating in CI projects.



By implementing the Continuous Improvement 5S Lean Process, we were able to drastically reduce the deployment times of all three field monitoring team vehicles, along with reducing the number of man-hours required to up-keep and inventory the vehicles.

*Kevin Webster,
H Canyon Radcon*



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Updating Operations

“For me, the most important change for H Area was Fred Dohse’s decision to locate his office in H Area when he first joined SRNS’s as the Vice President of Nuclear Materials Operations. Being in the field with his new group gave us a face for SRNS and helped to instill credibility and trust. The emphasis placed on safety first and production second by SRNS was also a welcomed improvement.” Charles Goergen, Deputy Manager, Nuclear Materials Operations

Nuclear Materials Operations (NMO) at SRS spans across K Area, L Area, H Area and the Analytical Labs. SRNS Improvement projects varied extensively in these areas, but all changes aimed at increasing safety, efficiency and performance.

In the K Area Complex, the K Area Storage Capacity was expanded by 300 storage positions, without extensive facility modifications, to allow surplus high enriched uranium to be received. The Purification Area Vault storage and the 49 position expansion to the storage in the 910-B vault will also assist in furthering missions.

At K and L Area, SRNS improved the reliability of the Radio Frequency Tamper Indicating Devices used to ensure security of containers of hazardous materials. In one year, replacement of these devices was reduced from 15 to 30 per month to less than one per month, saving \$200,000 per year and reducing employee radiation exposure.

SRNS engineers from NMO and SRNL worked together to increase the life span of hydrogen getters, machines that eliminate the explosive chemical hazard that can build up in Plutonium storage cans. Before, the getters had limited durations and had to be replaced periodically, costing \$3,000 per getter and causing radiation exposure. Since SRNS, H Area TRU Waste Disposition repackaged 1,046 cubic meters of TRU waste into 870 certified waste containers, creating a disposition path for legacy waste, including containers that have been in storage for up to 20 years, generated by SRS or other DOE sites.

In 2010, H Area automated procedure calculations were introduced to save \$20,000 per system annually in labor costs. One system has been completed and two potential systems are underway. Overall, H Area costs were reduced by \$9 million and Analytical Labs’ costs were reduced by \$10 million from FY2008 to FY2010.

Work continues to disposition and repackage TRU waste for shipment to WIPP



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Equipping Success

When SRNS became responsible for the Savannah River National Laboratory (SRNL), a few key components of continued success and growth were noticed, and corrections began. SRNS instituted business changes to better facilitate collaboration with universities, other laboratories, the private industry and other scientific groups, and to improve the transfer of technology developed by SRNL to the private sector.

SRNS allocated a portion of their fee reserve to cover the advanced payments required for selected university collaboration agreements; negotiated Performance Based Incentives for the development of SRNL's external partnerships and technology transfers; advanced SRNL's external partnerships, gaining the Hyperion agreement, the GE Hitachi agreement and others through SRNS's senior management; initiated an alliance with South Carolina and Georgia research universities to expand strategic collaborative research opportunities and develop enhanced business and funding mechanisms to facilitate interactions; established the Business Support Planning Group to discuss potential Cooperative Research and Development Agreements and Work-for-Others projects to expedite approval processes, and SRNS improved placement of new agreements through increased cooperation among the SRS stakeholders and through implementation of an electronic approval system. SRNL's Technology Transfer office adopted "best practices" through strengthened communications channels with other National Laboratories and with the new DOE Technology Transfer Coordinator to

substantially enhance partnering capabilities. And, when SRNL implemented an annual Technology Transfer Recognition Reception to honor employees whose work resulted in inventions that received patents or were licensed by private industry, the number of invention disclosures submitted rose dramatically.

SRNS also faced the problem of declining facilities at SRNL and recognized that revitalization and expansion were vital for progression. Acquisition and improvement initiatives for SRNL's physical assets included easing access to SRNL conference and office buildings for visits by customers and partners, expanding the FBI's Radiological Evidence Examination Facility to six times its original size in one wing of SRNL's main building, restoring of one of SRNL's key buildings by replacing the roof and major ventilation system, procuring and installing a modular secure facility and reaching an agreement to convert another onsite building as a secure facility, replacing old tools

and upgrading the entry of the main SRNL building and a major conference room. Also, SRNS implemented the first Infrastructure General Plant Project process to sustain and reinvest in the Laboratory's general infrastructure by funding projects that benefit SRNL as a whole. Spreading the cost among all of the Laboratory's on- and off-site customers, it is expected to provide funding for \$3.5 million to \$4 million in SRNL general infrastructure projects annually.

Construction began in 2009 on a \$345 million Waste Solidification Building (WSB). The second facility in SRS' plutonium disposition complex, the WSB will process liquid waste streams from the Mixed Oxide Fuel & Fabrication Facility and Pit Disassembly and Conversion.



Savannah River Nuclear Solutions CORE VALUES

We uphold these core values because they provide the underpinnings for our success and for the overall quality of performance expected of us as well as what we expect of ourselves as we pursue our vision for the Savannah River Site.



We conduct all aspects of our work safely, continuously improving in pursuit of injury- and incident-free performance.



We live by the highest standards of ethics, transparency and security.



We work to create and maintain highly effective relationships with each other, our customers and suppliers, and other stakeholders. We respect each other's perspectives and share knowledge and resources to achieve excellence, deliver value and grow individually and collectively.



We are dedicated to satisfying our customers, delivering quality services of unmatched value, and constantly raising the bar on our performance.



The Savannah River Site is owned by the U.S. Department of Energy.
The management and operating contract is held by Savannah River Nuclear Solutions, LLC.

2008

	(1-09)	Construction began on Waste Solidification Building (WSB)
Instituted business changes to better facilitate collaboration with universities, other laboratories, the private industry and other scientific groups	(4-09)	
	(5-09)	The Nuclear & Criticality Safety Engineering Department established
SRNS brought nearly one dozen new leaders to SRS	(8-09)	
	(9-09)	The Criticality Safety Engineer Training & Qualification Program implemented
NMO and SRNL increased life span of hydrogen getters in plutonium storage	(12-09)	IS issued the Comprehensive Infrastructure Mission Alignment Plan (IMAP)
	(1-10)	U.S. Energy Freedom Center at SRS envisioned
InSite replaced Shrine	(1-10)	
	(2-10)	Smart Plant Foundation (SPF), a single software package, was implemented
The Engineering Human Capital Program was launched	(3-10)	
	(4-10)	SRNS Workforce Services launched a Coaching Matters training program
Key applications and programs accessible from external, non-government furnished, personal computers using Citrix XenApp	(4-10)	SRNS held a Safety Blitz
	(5-10)	Small business mentor protégé program was strengthened
Construction achieved 12 years/24 million hours without lost time injury	(5-10)	
SRNS Workforce Services created mentoring circles	(5-10)	K Cooling Tower imploded
	(5-10)	H Canyon implemented an Automated Procedure Calculation System
Single Sign-On implemented	(5-10)	
	(6-10)	Operations & Subcontractors recognized by the National Safety Council for achieving 10 million hours without a lost time injury
Expanded the FBI's Radiological Evidence Examination Facility to six times its original size in one wing of SRNL's main building	(6-10)	
	(6-10)	23 Pollution Prevention projects documented and approved for credit and resulted in 838 cubic meters of hazardous and radioactive waste avoidance/diversion
SRNS Workforce Services formed the Leadership Development Forum	(6-10)	
	(8-10)	M Area is first ARRA Area Closure completed
	(9-10)	SRNL's Technology Transfer office adopted "best practices"
New comprehensive suite of integrated business systems implemented	(9-10)	
SRNS hosted the Integrated Safety Management (ISM) Workshop	(9-10)	DOE awarded SRS the VPP STAR of Excellence and the Legacy of STARS at the ISM Workshop
	(9-10)	Infrastructure Services completed eight scopes of work to enhance the continued operation of the D Area Powerhouse
Tritium Programs continued their perfect record of on-time shipments, achieving 50 percent more reservoir output in FY10 with a smaller staff	(9-10)	
	(9-10)	81 Shipments of transuranic waste completed
Tritium Programs successfully completed a four-year project that modernized the Automated Reservoir Management System (ARMS)	(9-10)	
	(10-10)	Three memorandum of understandings were signed with GE-Hitachi, Hyperion Power Generation and TetraTech to explore the potential for demonstrating small modular reactor technology and water initiatives at SRS
Leaders Emerging Among Professionals (LEAP) was created	(10-10)	
Over 100,000 cubic yards of grout placed at P & R Reactors	(10-10)	
	(10-10)	Second version of InSite implemented
Initiated development of a Greenhouse Gas Emissions Inventory to track and report reductions	(10-10)	
	(11-10)	Established a Unit Bill System
	(12-10)	Shipped first shipment of hazardous waste compressed gas cylinders containing small lecture bottles to a treatment, storage and disposal facility
"Safest" Total Recordable Cases (TRC) Rate for Operations & Subcontractors under current DOE reporting structure since 1985	(12-10)	
	(12-10)	SRNS used \$5 million of corporate dollars to create a Rewards & Recognition Program

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