

January 30, 2009

SRNS-J6000-2009-00010

RSM Track#: 10667

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**2009 RADIOLOGICAL IMPROVEMENT PLAN (RIP)**

**REF: STANDARDIZE AND IMPROVE ADHERANCE TO RADIOLOGICAL CONTROLS- SRNS-J6000-2008-00007, NOVEMBER 14, 2008,**

In the referenced document, Radiological Protection Department (RPD) issued a fourteen point Radiological Improvement Plan. The first thirteen points were all completed on or ahead of schedule, and this document serves to close the final item (action 14) which stated "Perform a management review of data obtained from self-assessments, MFOs, and outside audits. Areas of concern that are identified will be used to develop subsequent continuous improvement initiatives. Issue a Radiological Improvement Plan."

SRNS is on a four-step quest for radiological excellence. Step one, "Back to Basis", is addressed in the referenced document, and is closed based on the achievement of an 8% reduction, versus a goal of 5%, in the M&O ORPS personnel contamination event rate, as compared to the FY08 benchmark. Step two, which is "Sustained Improved Radiological Operations", commences February 1, 2009 with the issuance of this plan, and is scheduled to end September 30, 2009. Successful completion of this plan will be the basis for moving to Step three, which is the "Bottoms Up" process where front line workers are actively involved in planning and oversight, and providing innovative ALARA input. The fourth step, which is "Best in Class Performance", will be entered at the conclusion of step three, which is tentatively scheduled for September 30, 2010.

The transition from Step one to Step two in Sustained Improved Radiological Operations will support the SRNS beliefs of rigor, renewal, and results. Each of the seven focus areas and twenty-one actions will serve to fulfill this vision. The seven focus areas include Radiological Engineering, Training, Infrastructure Upgrades, Radiological Protection Staffing, Management Assessment Program, Procedures and Processes, and Work for Others. In addition, the SRNS Executive Team Focus on six key areas are all directly supported through this plan. The six Executive Team Focus areas include: safe effective operations, efficient operations, grow and nature Savannah River National Laboratory, Human Capital Program, Site Future/Missions, and client relationships.

Each of the twenty-one items of this plan has been entered into STAR, and the 9/30/09 RIP completion date will be tracked in the SRNS War Room. Completion of this plan will help ensure that that SRS Radiological Protection Program continues to improve, with the ultimate goal of "Best in Class Performance" just a few years away.

**Focus Area A:  
Radiological Engineering**

**Objective**

Enhance the ability of the radiological engineers to support the field in an efficient and consistent manner. Additionally, ensure the ALARA Center is a strategic resource available and capable of supporting the field in meeting radiological, as well as health and safety challenges.

<b>Actions</b>	<b>Measures</b>	<b>Deliverables</b>
<p><b>A.1</b> Reorganize the radiological engineering and technology resources, including the establishment of a lead to oversee the group.</p>	<p>Creates an opportunity to more efficiently assign tasks, cross train, create synergy and mentor personnel. Responsible: Jim Stafford Due: 6/30/09</p>	<p>Organization Chart and Announcement</p>
<p><b>A.2</b> Expand the ALARA Center support of health and safety initiatives. This action includes assigning an H&amp;S SME to support the Center, as well as adding a third room.</p>	<p>Creates solutions that can address Industrial Hygiene (IH), Industrial Safety (IS) and Radiological Protection issues. Responsible: Greg Tunno Due: 4/30/09</p>	<p>May 2009 ALARA Activity Report</p>

**Focus Area B:  
Training**

**Objective**

SRS radiological workers will be trained and qualified commensurate with their level of responsibility for and involvement in radiological work.

<b>Actions</b>	<b>Measures</b>	<b>Deliverables</b>
<p><b>B.1</b> Develop an Integrated Project Team (IPT) to review the Advanced Radiological Worker (ARW), RWT1, and RWT2 training and make recommendations to improve the process.</p>	<p>Integrated Project Team (IPT) to include training professionals, line management and RPD personnel to review material and make recommendations for improvement. Responsible: David Miller (Lead) Due: 9/30/09</p>	<p>IPT Assessment Report</p>
<p><b>B.2</b> Develop an Integrated Project Team (IPT) to review the Radiological Protection Inspector and First Line Manager training and make recommendations to improve the process.</p>	<p>Integrated Project Team (IPT) to include training professionals, Radiological Protection Inspectors and First Line Managers to review material and make recommendations for improvement. Responsible: Chuck Reames (Lead) Due: 9/30/09</p>	<p>IPT Assessment Report</p>
<p><b>B.3</b> Complete implementation of the SRS Radiological Response Guide, for Radiological Protection Inspectors responding to the Incident Scene during drills and events.</p>	<p>Enhance performance at the Incident Scene by both the Radiological Protection Inspectors and the controllers (consistent expectations). Responsible: Linda Blystone Due: 9/30/09</p>	<p>Emergency Preparedness Closure SCD-4 Drill Database Performance Indicator</p>

**Focus Area C:  
Infrastructure Upgrades**

**Objective**

An infrastructure upgrade program is established to improve the quality and efficiency of equipment and processes of radiological protection operations.

<b>Actions</b>	<b>Measures</b>	<b>Deliverables</b>
<p><b>C.1</b> Integrate the use of the Respirax plastic suit into normal operations at SRNS.</p>	<p>Provides an alternate plastic suit for situations when the loss of breathing air supply merits additional attention. Responsible: Heather Farrer Due: 4/30/09</p>	<p>Approval of 4Q 1.6 procedure 307, <i>Respirax Frontair 2 Plastic Suit</i></p>
<p><b>C.2</b> Resolve issues and receive approval to cannibalize Personnel Contamination Monitor (PCM) parts. Negotiate with DOE a plan for cannibalizing parts from selected portable radiation monitoring equipment.</p>	<p>Supports cost reductions in the implementation of the PCM replacements across the site. Supports cost reduction in the maintenance and repair of portable Radiation Monitoring Equipment (RME). Responsible: Greg Tunno Due: 6/30/09</p>	<p>DOE concurrence Approved cannibalization plan Publish PCM replacement schedule</p>
<p><b>C.3</b> Continue implementation of the 4 year TLD replacement plan. Plan is currently in second year.</p>	<p>Reduces Radiation Exposure Data Investigations (REDIs), increases reliability, and assures ability to support the area projects. Responsible: Greg Tunno Due: 9/30/09</p>	<p>HP Services White Paper</p>
<p><b>C.4</b> Continue plans to replace ProRad. Key activities in FY09 are to complete requirements document, resolve make/buy decision and begin software programming.</p>	<p>Follow published schedule. Responsible: Greg Tunno Due: 9/30/09</p>	<p>Follow published schedule Keep above the funding line</p>

**Focus Area D:  
Radiological Protection Staffing**

**Objective**

The radiological protection organization will provide a flexible workforce of Radiological Protection Inspectors, Health Physics Professionals, Multi-Skilled Technicians, etc., that can be rapidly deployed to meet high priority needs of the site.

<b>Actions</b>	<b>Measures</b>	<b>Deliverables</b>
<p><b>D.1</b> SRNS will assume “Subject Matter Expertise” for all aspects of the radiological program. NOTE: Some exceptions may be granted due to specific circumstances and applicability to LWO.</p>	<p>Facilitates responsiveness to issues and leadership across SRS in the implementation of the Radiation Protection Plan (RPP). Responsible: Jim Stafford Due: 9/30/09</p>	<p>Procedure matrix published showing M&amp;O SMEs</p>
<p><b>D.2</b> Perform exempt staffing level review and present to management a Needs Analysis.</p>	<p>Facilitates cross training and succession planning. Responsible: Greg Tunno Due: 6/30/09</p>	<p>Needs Analysis</p>
<p><b>D.3</b> Work with WSRC and SRNS senior management to meet the SRS hiring commitment to the Aiken Technical College and its new Radiological Tech Certificate and Associates Degree Program.</p>	<p>Facilitates succession planning in the non-exempt roles as well as meeting previous commitments for community support. Responsible: Jim Stafford Due: 9/30/09</p>	<p>Hiring plan, including summer intern assignments</p>

**Focus Area E:  
Management Assessment Program**

**Objective**

A Management Assessment Program is in place that assures management is in the field effectively influencing the standards and expectations with respect to the conduct of work. The Program includes adequate self assessments that measure performance against standards and expectations.

<b>Actions</b>		<b>Measures</b>	<b>Deliverables</b>
<b>E.1</b>	Develop the 2009 Management Assessment Plan based on issues from the Facility Evaluation Board (FEB), SRNS transition, third tier bin data, etc.	Ensures the assessment plan addresses the key issues in a prioritized manner. Responsible: Trish Williams Due: 2/28/09	Plan issued
<b>E.2</b>	Participate in the Site initiative to establish Leading Performance Indicators.	Establishes a means of anticipating events before they occur. Responsible: Michael Gilles Due: 3/30/09	Set of Performance Indicators
<b>E.3</b>	Conduct cost-benefit analysis of the site's implementation of outdoor and overhead Contamination Areas (CAs) from a risk based perspective.	Addresses concerns raised during the SRNS Transition. Responsible: Mike Collins, Facility Management Forum (FMF) Vice Chair, with assistance from S&H RPD Managers Due: 9/30/09	FMF to provide results of review

**Focus Area F:  
Procedures and Processes**

**Objective**

Enhance SRNS safe and efficient operations by maintaining regulatory compliance while becoming more efficient. Included in this initiative is the development and documentation of cost savings methodology.

<b>Actions</b>	<b>Measures</b>	<b>Deliverables</b>
<p><b>F.1</b> Conduct a review of Manual 5Q and selected implementation procedures with emphasis on 10CFR835 implementation, usability, accuracy, and efficient operation.</p>	<p>Ensures the site level guidance adequately established standards and expectations. Responsible: Jim Stafford Due: 9/30/09</p>	<p>Completed procedure reviews</p>
<p><b>F.2</b> Work with FMF to determine if additional actions are required regarding the planning and release of routine work.</p>	<p>Provides follow-up to the site level common causal analysis conducted in 2008. Responsible: Michael Gilles Due: 7/31/09</p>	<p>Team report</p>
<p><b>F.3</b> Develop a process to document cost and dose savings using \$6600 per person-rem saved.</p>	<p>Dose saved. More efficient operations. Responsible: Michael Gilles Due: 6/30/09</p>	<p>Quarterly Performance Indicator</p>
<p><b>F.4</b> Create an IPT to review radiological work practices to evaluate cost effectiveness. The team will be composed of RPD, Operations and Engineering (as appropriate) personnel.</p>	<p>Develop more cost effective means of radiological compliance. Responsible: Roy Windham Due: 8/31/09</p>	<p>Team Report</p>

**Focus Area G:  
Work for Others**

**Objective**

Continue to expand Radiological Protection Department’s “Work for Others” to help ensure the growth of the Savannah River National Laboratory (SRNL) Homeland Security efforts.

<b>Actions</b>	<b>Measures</b>	<b>Deliverables</b>
<b>G.1</b> Provide continued support to the Department of Homeland Security missions, including the brokering of site radiological support and tracking of charged hours.	Supports SRNS initiative to expand SRNL missions. Responsible: Greg Tunno Due: 9/30/09	Billable hours under work for others
<b>G.2</b> Investigate the feasibility of achieving Homeland Security National Voluntary Laboratory Accreditation Program (NVLAP) accreditation.	Supports SRNS initiative to expand SRNL missions. Responsible: Greg Tunno Due: 9/30/09	Reviewed portfolio of materials submitted Graduated Rad/Nuc Detector Evaluation and Reporting (GRaDER) program approval

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