

**Summary Notes, October 28, 2008**  
**SRS Citizens Advisory Board**  
**Strategic & Legacy Management Committee Meeting**

The Savannah River Site (SRS) Citizens Advisory Board (CAB) Strategic & Legacy Management (S&LM) Committee met on Tuesday, October 28, 2008, 5:30-7:30 p.m., at Newberry Hall, in Aiken, SC.

The purpose of the meeting was to discuss: 1) Fiscal Year (FY) 2009 Operating Budget and Continuing Resolution; 2) NEPA Documentation Status; and 3) the Annual Environmental Monitoring Report, and to provide an opportunity for public comments on CAB related documents.

**ATTENDEES:**

**CAB Members**

- Madeleine Marshall, Chair  
- Beverly Skinner, Vice  
Chair  
Alex Williams  
Mary Drye  
Stan Howard  
Joe Ortaldo  
Leon Chavous  
- Judy Greene-McLeod  
Donna Antonucci

**Stakeholders**

Von Keisler, SCDHEC  
  
Heather Cathcart, SCDHEC  
Sandra Meischen, Public  
Scott Brim, Public  
Jack Roberts, Public  
Tom Rolka, SCDHEC  
Paul Dickson, Public  
Rob Pope, EPA  
John & Lottie Christian, Public  
John Bergstrom, Public  
H. Gayle Gulick, Public  
Rick McLeod, Public  
Rick Olse, Public

**DOE/Contractors/Others**

Sheron Smith, DOE-SR  
  
Gail Whitney, DOE-SR  
Allison Clark, DOE-SR  
Ross Fanning, SRNS  
Lyddie Hansen, SRNS  
Barry Shedrow, SRNS  
Tim Jannik, SRNS  
Paul Sauerborn, SRNS  
J. D. Heffner, SRNS  
Mtesa Wright, SRNS  
Nancy Betharem, WSRC  
Sherry Southern, DOE-SR  
Larry Ling, SRNS  
Drew Grainger, DOE-SR  
Lance Schlag, DOE-SR  
Jim Heffner, SRNS

- *S&LM Committee Members* Alan Eckmyre – Technical  
Advisory

**Welcome and Introduction:**

Ms. Madeleine Marshall, Chair, S&LM, opened the meeting with a welcome to all. The attendees introduced themselves. Ms. Marshall referenced the meeting ground rules and encouraged adhering to them.

**Committee Update:**

Ms. Marshall referenced and encouraged everyone to read a recent Augusta Chronicle article on the radiation exposure has decreased at the Savannah River Site.

Ms. Marshall stated that she met with Walt Joseph, SRS Heritage Foundation Museum at SRS, who is asking for contributions for the museum. His work relates to historic artifact preservation.

She reviewed the purpose and process of the CAB recommendations. She stated that the recommendation approved in September on the Site Facility tours has been responded to by the Department and that she is glad to hear the tour program is being addressed. This recommendation will be changed from pending to open at the next full board meeting. As a review, there are six open, three on budget; two on SREL; and the one on the tour program. All

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of the S&LM recommendations will be discussed and closed as appropriate at the full Board meeting in November.

#### **Committee Meeting Summary:**

Members of the Strategic and Legacy Management (S&LM) Committee held a committee meeting on Tuesday, 10/28/08, 5:30-7:30 pm, at Newberry Hall, Aiken, SC. DOE-SR hosted the meeting. The agenda topics were 1) FY09 Operating Budget Status to include Continuing Resolution Status, presented by Lance Schlag, DOE-SR; 2) the Annual Environmental Monitoring Report, presented by Ross Fanning, SRNS; and 3) the NEPA documentation status, presented by Drew Grainger, DOE-SR. An opportunity for the public to comment on CAB related issues was provided. The meeting was very well attended. No issues or draft motions are expected from the meeting discussions.

The meeting began with an update on the S&LM committee activities and the status of all S&LM open and pending recommendations.

Lance Schlag, DOE-SR, provided a presentation on the SRS budget to include the EM budget FY 2008; the EM budget summary; the NNSA budget summary; the status of the FY 2009 funding and continuing resolution; and the EM planned accomplishments for FY 2009. There were a lot of discussions and questions on the process for the funding (i.e. House mark-up vs. Senate mark-up) during a continuing resolution period and how the Site operates without the allocated funding.

The SRS CAB wants assurance that the Salt Waste Processing Facility; the TRU Program; and regulator commitments are going to be fully funded in FY 2009. Mr. Schlag affirmed that these programs will be funded and that the Site is operating in a conservative manner until final Congressional funding approvals are known. The SRS CAB members would like to know which Project Baseline Summaries are supporting the FY 2009 planned accomplishments; how does appropriations change in comparison to the DOE-SR budget submission; are there any activities not going to be completed due to lack of funding; and if there is going to be any impacts to the current workforce, i.e. reduction-in-force? Mr. Schlag deferred his response until further information is known. Mr. Schlag has been asked to present the budget summary at the full board meeting on November 18<sup>th</sup>.





















Drew Grainger, DOE-SR, provided an update on the status of the NEPA documents. The SRS CAB has a strong interest in the NEPA process and the NEPA documents that have effects on the work at SRS. DOE-SR and the SRS will continue to fulfill their NEPA obligations. Project scopes continue to change with new technical studies and shifting budget priorities. Open discussions and questions centered on how the NEPA documents take an extensive length of time to process, how and when the public may comment on the documents, and the NEPA document's process as applicable to the work scope at SRS.

Ross Fanning, SRNS, provided an overview of the SRS Annual Environmental Monitoring Report results. The SRS 2007 air and water releases, as well as all potential radiation doses from the Site, were well below applicable regulatory standards. The SRS CAB asked why there is a significant decrease between the 2006 and 2007 air dose. Mr. Fanning attributed the reduced air dose to the General Separation Area Consolidated Unit Remediation Project Completion. Also, the monitoring results continue to show that Site operations have had no adverse impact on the water quality of SRS streams and the Savannah River. Mr. Fanning has been asked to present the Annual Environmental Monitoring Report results at the full board meeting on November 18<sup>th</sup>.

**Public Comment:** None



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<p style="text-align: center;"><b>NEPA Documentation Status</b></p> <p style="text-align: center;">Presentation to Strategic and Legacy Management Committee</p> <p style="text-align: center;">Presentation By Andrew Grainger Department of Energy Savannah River Operations Office</p> <p style="text-align: center;">October 28, 2008</p>   <p style="text-align: right;">1</p>	<p style="text-align: center;"><b>Purpose</b></p> <ul style="list-style-type: none"> <li>To update the Strategic and Legacy Management Committee on the status of the National Environmental Policy Act (NEPA) documentation.</li> </ul>   <p style="text-align: right;">2</p>
<p style="text-align: center;"><b>Acronyms</b></p> <ul style="list-style-type: none"> <li>EA Environmental Assessment</li> <li>NEPA National Environmental Policy Act</li> <li>PEIS Programmatic Environmental Impact Statement</li> <li>SRS Savannah River Site</li> </ul>   <p style="text-align: right;">3</p>	<p style="text-align: center;"><b>SRS NEPA Actions</b></p> <ul style="list-style-type: none"> <li>Complex Transformation Supplemental Programmatic Environmental Impact Statement <ul style="list-style-type: none"> <li>Notice of Availability for the Final PEIS appeared in the Federal Register on October 24</li> <li>Record(s) of Decision no sooner than November 24</li> </ul> </li> </ul>   <p style="text-align: right;">4</p>
<p style="text-align: center;"><b>SRS NEPA Activities</b></p> <ul style="list-style-type: none"> <li>Global Nuclear Energy Partnership Programmatic Environmental Impact Statement <ul style="list-style-type: none"> <li>Notice of Availability for the Draft PEIS appeared in the Federal Register on October 17, 2008, starting a 60 day comment period.</li> <li>Public meetings will be held in November and December, including December 4 at Aiken Technical College.</li> </ul> </li> </ul>   <p style="text-align: right;">5</p>	<p style="text-align: center;"><b>SRS NEPA Activities</b></p> <ul style="list-style-type: none"> <li>Disposal of Greater-Than-Class C Low-Level Radioactive Waste Programmatic Environmental Impact Statement. <ul style="list-style-type: none"> <li>Scoping Meetings were held in August 2007.</li> <li>Current schedule calls for the Draft PEIS in May 2009 and the Final PEIS in May 2010.</li> </ul> </li> </ul>   <p style="text-align: right;">6</p>
<p style="text-align: center;"><b>SRS NEPA Activities</b></p> <ul style="list-style-type: none"> <li>Disposition of Scrap Metals Programmatic Environmental Impact Statement. <ul style="list-style-type: none"> <li>Scoping Meetings held in 2001</li> <li>PEIS is currently on hold, with no projected date for the Draft EIS.</li> </ul> </li> </ul>   <p style="text-align: right;">7</p>	<p style="text-align: center;"><b>SRS NEPA Activities</b></p> <ul style="list-style-type: none"> <li>Surplus Plutonium Disposition Supplemental Environmental Impact Statement <ul style="list-style-type: none"> <li>Scoping Meetings held in April 2007.</li> <li>Alternatives for disposition of surplus non-pit plutonium, including vitrification, feed for mixed oxide fuel fabrication, and processing through H-Canyon.</li> </ul> </li> </ul>   <p style="text-align: right;">8</p>
<p style="text-align: center;"><b>SRS NEPA Activities</b></p> <ul style="list-style-type: none"> <li>Supplement Analysis, Highly Enriched Uranium and Spent Nuclear Fuel Management. <ul style="list-style-type: none"> <li>Updates several NEPA documents that affect the operation of H-Canyon.</li> <li>DOE must issue a revised record of decision to process aluminum-clad spent nuclear fuel.</li> </ul> </li> </ul>   <p style="text-align: right;">9</p>	<p style="text-align: center;"><b>SRS NEPA Activities</b></p> <ul style="list-style-type: none"> <li>Proposed Use of SRS Lands for Military Training Environmental Assessment <ul style="list-style-type: none"> <li>Notification of intent to prepare the EA in October 2007.</li> <li>Continuing discussions with the Army on the scope of the proposed training activities.</li> <li>Interagency Agreement in development.</li> <li>Currently expect to issue the draft EA in mid-2009.</li> </ul> </li> </ul>   <p style="text-align: right;">10</p>



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## SRS Citizens Advisory Board



















### Strategic & Legacy Management Committee Meeting

**Summary**



















DOE-SR and SRS continue to fulfill our NEPA obligations. Project scopes continue to change with new technical studies and shifting budget priorities. DOE-SR can provide similar updates at your convenience.



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## Annual Environmental Monitoring Report – presented by Ross Fanning, SRNS

<div style="background-color: #4a69bd; color: white; text-align: center; padding: 5px;"><b>An Overview of the SRS Environmental Report for 2007</b></div> <p style="text-align: center;">Presentation to SRS Citizen Advisory Board Strategic and Legacy Management Committee</p> <p style="text-align: center;">October 28, 2008</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p><small>Gail R. Whitney</small> Environmental Quality Management Division Savannah River Operations Office</p> </div> <div style="width: 45%;"> <p><small>Ross Fanning</small> Environmental Protection Savannah River Nuclear Solutions</p> </div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;">   <span>1</span> </div>	<div style="background-color: #4a69bd; color: white; text-align: center; padding: 5px;"><b>Abbreviations and Acronyms</b></div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr><td style="width: 20%;">ANSP</td><td>Academy of Natural Sciences of Philadelphia</td></tr> <tr><td>Diffuse &amp; Fugitive Source</td><td>An air emission source that is calculated rather than directly measured, such as vents or basins</td></tr> <tr><td>FDA</td><td>U.S. Food and Drug Administration</td></tr> <tr><td>MEI</td><td>Maximally Exposed Individual</td></tr> <tr><td>mrem</td><td>millirem</td></tr> <tr><td>NPOES</td><td>National Pollutant Discharge Elimination System</td></tr> <tr><td>Unidentified Alpha (UnA)</td><td>Alpha activity that is determined by subtracting the sum of individually measured alpha-emitting radionuclides from gross alpha values.</td></tr> <tr><td>Unidentified Beta (UnB)</td><td>Beta activity that is determined by subtracting the sum of individually measured beta-emitting radionuclides from gross beta values.</td></tr> </table> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;">   <span>2</span> </div>	ANSP	Academy of Natural Sciences of Philadelphia	Diffuse & Fugitive Source	An air emission source that is calculated rather than directly measured, such as vents or basins	FDA	U.S. Food and Drug Administration	MEI	Maximally Exposed Individual	mrem	millirem	NPOES	National Pollutant Discharge Elimination System	Unidentified Alpha (UnA)	Alpha activity that is determined by subtracting the sum of individually measured alpha-emitting radionuclides from gross alpha values.	Unidentified Beta (UnB)	Beta activity that is determined by subtracting the sum of individually measured beta-emitting radionuclides from gross beta values.																	
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<div style="background-color: #4a69bd; color: white; text-align: center; padding: 5px;"><b>Purpose</b></div> <ul style="list-style-type: none"> <li>Response to CAB request for a presentation and discussion of Site Environmental Report results</li> </ul> <div style="text-align: center; margin-top: 20px;">  </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;">   <span>3</span> </div>	<div style="background-color: #4a69bd; color: white; text-align: center; padding: 5px;"><b>Environmental Monitoring</b></div> <ul style="list-style-type: none"> <li>Purpose of Program <ul style="list-style-type: none"> <li>– Characterize and quantify contaminants</li> <li>– Demonstrate compliance with applicable requirements</li> <li>– Calculate radiation exposures to the public</li> <li>– Assess the effects, if any, on the local environment</li> </ul> </li> </ul> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;">   <span>4</span> </div>																																	
<div style="background-color: #4a69bd; color: white; text-align: center; padding: 5px;"><b>2007 Monitoring Program Summary</b></div> <ul style="list-style-type: none"> <li>Savannah River Site's 2007 air and water releases, as well as all potential radiation doses from the site, were well below applicable regulatory standards.</li> <li>For 2007, the radiation dose to the <ul style="list-style-type: none"> <li>– public living near SRS was well below DOE's 100-mrem/year standard</li> <li>– downriver water consumer was well below EPA's 4-mrem/year standard</li> </ul> </li> </ul> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;">   <span>5</span> </div>	<div style="background-color: #4a69bd; color: white; text-align: center; padding: 5px;"><b>2007 Monitoring Program Summary</b></div> <ul style="list-style-type: none"> <li>Clean Air Act and Clean Water Act <ul style="list-style-type: none"> <li>– Compliance rate of 100%</li> <li>– No notices of violation (NOV)</li> </ul> </li> </ul> <div style="text-align: center; margin-top: 20px;">  </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;">   <span>6</span> </div>																																	
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<p style="text-align: center;"><b>Differences Between 2006 and 2007 Air Dose</b></p> <ul style="list-style-type: none"> <li>• Significant decrease in 2007</li> <li>• Fewer contributing radionuclides</li> <li>• General Separation Area Consolidated Unit (GSACU) Remediation Project completed <ul style="list-style-type: none"> <li>– Increased diffuse and fugitive source observed in 2006</li> </ul> </li> </ul>    <p style="text-align: right;">9</p>	<p style="text-align: center;"><b>Special Case Doses</b></p> <ul style="list-style-type: none"> <li>• Sportsman Dose <ul style="list-style-type: none"> <li>– 100 mrem Annual Limit</li> <li>– Fish <ul style="list-style-type: none"> <li>• 0.24 mrem (maximum, Lower Three Runs bass)</li> </ul> </li> <li>– Deer/Hogs <ul style="list-style-type: none"> <li>• 9 mrem (maximum onsite deer/hog hunter)</li> <li>• 1.9 mrem (maximum offsite deer hunter)</li> <li>• 2.3 mrem (maximum offsite hog hunter)</li> </ul> </li> </ul> </li> <li>• Biota Dose <ul style="list-style-type: none"> <li>– All streams below the DOE 1-rad/day dose limit</li> </ul> </li> </ul>    <p style="text-align: right;">10</p>		
<p style="text-align: center;"><b>Nonradiological Surveillance</b></p> <ul style="list-style-type: none"> <li>• Mercury in Fish <ul style="list-style-type: none"> <li>– Generally higher in predators</li> <li>– Observed maximum Savannah River concentrations (µg/g) <ul style="list-style-type: none"> <li>• Bass 1.66 (Lower Three Runs mouth)</li> <li>• Bream 2.13 (Hwy 17A)</li> <li>• Catfish 1.07 (Four Mile Creek mouth)</li> <li>• Levels similar above and below SRS</li> </ul> </li> <li>– FDA limit: 1 µg/g; SC fish advisory in effect</li> </ul> </li> </ul>    <p style="text-align: right;">11</p>	<p style="text-align: center;"><b>Nonradiological Surveillance (cont.)</b></p> <ul style="list-style-type: none"> <li>• Long-term Savannah River Water Quality Survey Results <ul style="list-style-type: none"> <li>– Long-term trends indicate that overall stream and river water quality below SRS is higher than above the plant.</li> <li>– WSRC and ANSP monitoring results continue to show that site operations have had no adverse impact on the water quality of SRS streams and the Savannah River.</li> </ul> </li> </ul>    <p style="text-align: right;">12</p>		
<p style="text-align: center;"><b>Closing Comments</b></p> <ul style="list-style-type: none"> <li>• SRS continues to conduct a comprehensive environmental monitoring program.</li> <li>• The site's airborne and liquid releases to the environment show a long-term decrease.</li> </ul>    <p style="text-align: right;">13</p>	<p style="text-align: center;"><b>Contact Information</b></p> <ul style="list-style-type: none"> <li>• The report is available on the web at:  <a href="http://www.srs.gov/general/pubs/ERsum/index.html">http://www.srs.gov/general/pubs/ERsum/index.html</a></li> <li>• To inquire about the report, contact:</li> </ul> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <b>Ross Fanning</b>  Environmental Monitoring  Savannah River Nuclear Solutions  Building 735-B  Aiken, SC 29808  Telephone: 803-952-8247  E-mail: ross.fanning@srs.gov </td><td style="vertical-align: top;"> <b>James Heffner</b>  Environmental Protection  Savannah River Nuclear Solutions  Building 705-3C  Aiken, SC 29808  Telephone: 803-557-9625  E-mail: james.heffner@srs.gov </td></tr> </table>    <p style="text-align: right;">14</p>	<b>Ross Fanning</b> Environmental Monitoring Savannah River Nuclear Solutions Building 735-B Aiken, SC 29808 Telephone: 803-952-8247 E-mail: ross.fanning@srs.gov	<b>James Heffner</b> Environmental Protection Savannah River Nuclear Solutions Building 705-3C Aiken, SC 29808 Telephone: 803-557-9625 E-mail: james.heffner@srs.gov
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