

# Savannah River Site

## 2025 ALARA Document (U)

---

Approved by:

---

M&O Senior Executive – Site ALARA Committee Chairperson

---

LWO Senior Executive

Prepared by:

---

Site ALARA Coordinator

## **Executive Summary**

The ALARA goals for the Savannah River Site (SRS) for calendar year (CY) 2025 were established by the appropriate radiological facilities and their support groups based on the anticipated work for the year. These goals were presented to the Site ALARA Committee (SAC) and the Environmental Safety and Quality Board (ESQB) for approval by appointed voting members.

The annual base routine operations cumulative exposure goal is 93.200 rem. Exposure goals for special (non-recurring) work operations are maintained by calendar quarter. The special work goal for the year is 114.553 rem. The total exposure goal for CY 2025 is 207.753 rem. In comparison, the final goal for CY 2024 was 212.202 rem. The CY 2025 goal is a 2.1% decrease from the CY 2024 goal.

SRS has established an annual Administrative Control Level (ACL) of 500 mrem Total Effective Dose (TED) for most site workers. Qualified and trainee K Area KIS Glove Box (GB) Operators will be assigned an ACL of 800 mrem. Savannah River Mission Completion (SRMC) has established an ACL of 800 mrem for certain workgroups within Salt Waste Processing Facility (SWPF). These can be compared to the DOE ACL of 2,000 mrem, and a federal limit of 5,000 mrem. Contractor chief official approval is necessary to allow a contractor employee to exceed the SRS ACL. Department of Energy (DOE)/National Nuclear Security Administration (NNSA) Secretarial Officer, or designee, approval is necessary to allow a Site worker to exceed the DOE ACL. DOE-SR has established the Site ACL for DOE employees at 150 mrem.

The goal for intakes of radioactive material resulting in an exposure greater than 500 mrem Committed Effective Dose (CED) from a single event continues to be zero.

## **Radiological Performance Goals**

**Cumulative Radiation Exposure** is based on total effective dose exposures (including tritium) resulting from Base Routine Operations and Special Work Operations.

- *Base Routine Operations* are related to normal day to day activities.
- *Special Work Operations* are not part of routine operations and typically are of limited, non-repetitive duration. Special Work Operations goals are reviewed quarterly by the facilities and goals may be adjusted as approved by the company's executive committee.

**Maximum Individual Exposure/Administrative Control Levels** are established to maintain personnel radiation exposure well below the DOE ACL of 2,000 mrem, while being both challenging and achievable for the site.

**Personnel Contamination Events** are established for skin and personnel effects contamination that are reportable in accordance with the criteria contained in DOE O 232.2A, “Occurrence Reporting and Processing of Operations Information.” These reporting criteria are available in the site’s SIRIM/ORPS information system.

**Confirmed Intakes Resulting in CED** are established for a single intake of radioactive material that exceeds the anticipated exposure of 500 mrem or greater. This criterion is based on DOE M 232.2A, “Occurrence Reporting and Processing of Operations Information.” The reporting criterion is available in the site’s SIRIM/ORPS information system.

Business Unit	Base Routine (rem)	Special Work (rem)	Total Cumulative Exposure Goal (rem)
<b>H-Area Material Disposition</b> H-Canyon/ H-Outside Facilities/ H B-Line	4.500	1.500	6.000
<b>Nuclear Materials Storage Project</b> K-Area	14.400	23.000	37.400
L-Area	2.100	0.590	2.690
<b>Solid Waste (E-Area)</b>	4.400	0	4.400
<b>INF/SGP</b>	4	0	4
<b>Tritium Projects</b>	2.000	0.850	2.850
<b>F-Area Operations</b>	2	0	2
<b><u>Management and Operations Total</u></b>	<b>33.400</b>	<b>25.940</b>	<b>59.340</b>
<b>Waste Treatment</b> DWPF/ Saltstone	14	13.340	27.340
<b>Tank Farms</b> H-Tank Farm/ 299-H/ ETP/ F-Tank Farm	19.800	22.070	41.870
<b>Salt Waste Processing Facility</b>	3	51.645	54.645
<b><u>Liquid Waste Operations Total</u></b>	<b>36.800</b>	<b>87.055</b>	<b>123.855</b>
<b><u>BSRA Total</u></b>	<b>18.000</b>	<b>1.558</b>	<b>19.558</b>
<b><u>Centerra-SRS Total</u></b>	<b>5</b>	<b>0</b>	<b>5</b>
<b><u>Site Goal</u></b>	<b>93.2</b>	<b>114.553</b>	<b>207.753</b>