



U.S. DEPARTMENT OF
ENERGY

Savannah River Site Waste Recycle Programs

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SRS Citizens Advisory Board January Meeting

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Purpose

Purpose of Brief:

- Provide the Citizens Advisory Board with Savannah River Site recycle and reuse programs in the areas of waste generation.



Program Requirements

Executive Order 14057 – Catalyzing Clean Energy Industries and Jobs through Federal Sustainability (12/8/2021)

DOE Order 436.1 – Department Sustainability Program (Last Revision Date 11/16/2022)

SRIP 436.1 – Departmental Sustainability Program (Last Revision Date 11/16/2022)

SRSPM 250.1.1F - DOE Savannah River Site Policy Manual (Last Revision 9/4/2018)

Site Level Manual 3Q.6. 2 – Solid Waste Management and Disposal (Last Revision 7/11/2019)

Site Level Manual 3Q.6.11 – Environmental Compliance / Pollution Prevention Program (Last Revision 6/10/2021)



Non-Hazardous Waste (Title 40 CFR 239 - 259)

This category includes sanitary, Construction/Demolition, and general non-hazardous solid waste.

Universal Waste (Title 40 CFR 273)

Defined as a category of waste material designated as hazardous waste, consistent with items and materials that are very common and widely generated.



South Carolina Department of Health and Environmental Control

- **Solid Waste Policy and Management Act (1991)**
- **Regulation 61-79 Hazardous Waste Management Regulations**
 - Universal Waste
- **Regulation 61-107 Solid Waste Management**
 - Sanitary Waste
 - Construction & Demolition Waste
 - General Non-Hazardous Waste

Receiving / Recycling Facility – Universal Waste



- Lamps → 17,060 pounds recycled **
- Mercury Containing Devices → 19 pounds **
- Batteries → 3,547 pounds **



** Source – 2021 SRS Environmental Report

Receiving / Recycling Facility – Office Supplies

UNICOR

- Scrap Electronics
- 131,086 pounds **



** Source – 2021 SRS Environmental Report

Toner Charge

- Toner Cartridges
- 15,820 pounds **



NAMRF / Augusta Data Storage

- Mixed Office Paper
- 533,519 pounds **



Receiving / Recycling Facility – Metal / Furniture



- Scrap & Heavy Metal
- 1,183,230 pounds**



- Furniture / Cabinets
- 284,360 pounds**



** Source – 2021 SRS Environmental Report

Receiving / Recycling Facility – Miscellaneous

Georgia Arms Ammunition

- Spent Shell Casings
(Scrap Metal)
- 16,147 pounds **



** Source – 2021 SRS Environmental Report

Battery Solutions and then to Gopher Resources/Mayco

- Spent Lead Acid Batteries
(Universal Waste)
- 59,948 pounds **

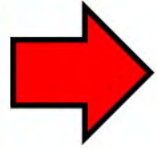


Ameresco Tire Recycling Facility

- Tires
- 20,260 pounds **



North Augusta Material Recovery Facility (NAMRF)



<https://www.youtube.com/watch?v=4XLYqcYVyx8>

Construction and Demolition (C&D) Recycling

Construction and Demolition (C&D) debris includes waste generated from constructing, remodeling, repairing and deconstructing buildings, roads, bridges, and drainage and sewage systems.

We have approval from DHEC to stage this material at the 632-G C&D Landfill for later reuse/processing/recycle.

Target: Recycle 50% of C&D waste.

Exact percentage rate for recycle is not available due to not weighing C&D waste, however:

- Scrap metals and office furniture was donated to the communities
- All road millings are re-utilized onsite for road improvements or donated offsite

Office and Municipal Waste Recycling

Table 2-2 SRS Recycling and Sustainability in FY 2021 by Amount

Items Recycled in FY 2021	Amount Recycled
Silver Fixative	40 gallons
Rechargeable Batteries	3,547 pounds
Lead Salvage	0 pounds
Fluorescent Tubes	17,060 pounds
Batteries (lead acid)	59,948 pounds
Furniture and Cabinets	284,360 pounds
Mixed Metal	1,183,230 pounds
Mixed Paper	533,519 pounds
Used Tires	20,260 pounds
Used Motor Oil	0 gallons
Consumer Electronics (including cell phones)	131,086 pounds
Toner Cartridges	15,820 pounds
Industrial Sludge (land applied)	0 cubic yards
Universal Waste Mercury Containing Devices	19 pounds

Savannah River Site generated 475 metric tons of office and municipal waste last year.

Of the 475 metric tons, 242 metric tons of material was put into recycling streams.

Target: Recycle 50% of office and municipal waste.

Results: 51% of office and municipal waste was recycled.

Source – 2021 SRS Environmental Report

