

EPA's Role in the Site Remediation and Cleanup Program at SRS (and ARRA Accomplishments)

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- Introduce EPA
- Origin of Superfund
- How Superfund applies to SRS
- EPA's involvement in SRS remediation program
- Work done at SRS under ARRA
- Future Cleanup Work at SRS





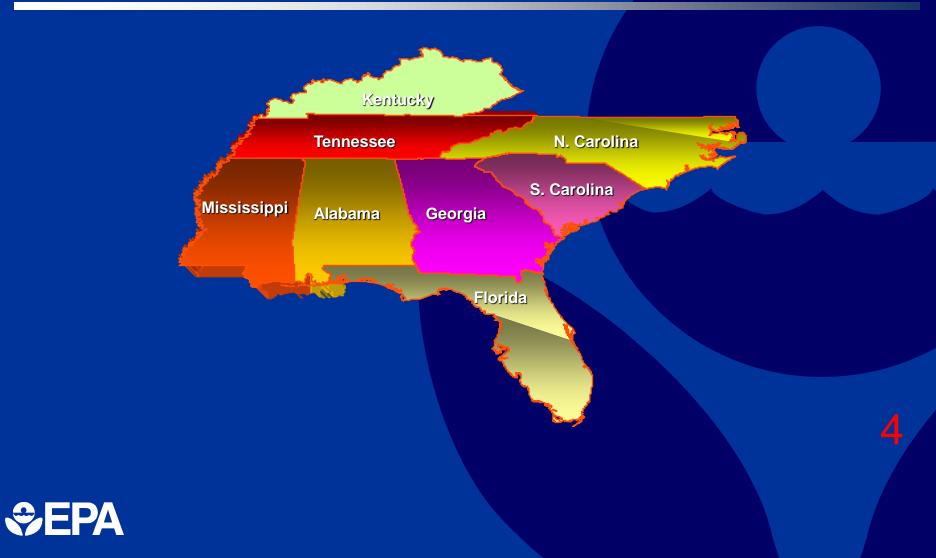
United States Environmental Protection Agency (EPA)

EPA mission: To protect human health and the environment

- Independent agency formed in 1970
- Congress writes environmental laws
- EPA writes regulations to implement laws
- EPA enforces regulations
- EPA sets national standards



U.S. EPA Region 4





CERCLA (aka Superfund)

 CERCLA provides authority for the federal government to respond to releases or threatened releases of hazardous substances

♦ CERCLA at Federal Facilities –

- » Makes DOE and DoD the "lead agency"
- » Federal facilities must follow policies and procedures as spelled out in the NCP
- » EPA either concurs with remedies proposed by lead agencies or picks another appropriate remedy
- » Federal Facilities (DoE, DoD, etc.) are subject to CERCLA requirements similar to private entities





Federal Statutes for Cleanup of Federal Facilities

♦ CERCLA

Most are delegated to SCDHEC to administer **»**RCRA »Oil Pollution Control Act » Safe Drinking Water Act »Clean Water Act »Clean Air Act





Department of Energy Facilities in EPA Region 4

- Savannah River Site South Carolina
- Paducah Gaseous Diffusion Plant Kentucky
- ♦ Oak Ridge Reservation Tennessee









EPA Region 4 Department of Defense Facilities





 34 NPL or BRAC facilities – Army, Navy, Air Force, Marines, NASA

MCRD Parris Island





Savannah River Site

- Added to the Superfund National Priorities List December 1989
- SRS required to have a Federal Facilities Agreement (agreement with State & EPA on how to do the cleanup)
- SRS Federal Facility Agreement signed August 1993
 - » Three party agreement (DOE, EPA, SCHEC)
 - » Governs investigation and remediation program
 - » Roles and responsibilities of each party
 - » Schedules and deadlines
 - » Enforceable milestones, penalties





EPA's Role

- Oversight of remedial actions at SRS with SCDHEC through the FFA
- Ensure adherence to the NCP, CERCLA, FFA, guidance
- Technical and procedural assistance
- Information, guidance, training
- EPA and SCDHEC concurrence required:

Selection of remedies (Record of Decision) 10





American Recovery and Reinvestment Act Work at DOE Sites in Region 4

Region 4 DOE Sites Total ARRA \$

\$2.4 Billion
\$40% of all DOE-EM (\$6 Billion)

SRS - \$1.615 Billion
Oak Ridge - \$755 Million
Paducah - \$79 Million





DOE Savannah River Site ARRA Scope

\$1.615 Billion

- Over 30 Building Demolitions (D & D)
- 2 Reactor Areas Completely Addressed (P and R), 1 Partial (C Reactor)
- Over 20 Non-Time Critical Removal Actions (EE/CAs, Action Memos, Removal Reports)
- Actions at 14 Operable Units Accelerated by 2 to 20+ Years
 - » 2 Reactor buildings and vessels grouted/cleaned up/sealed off/closed
 - » Landfill Caps, Excavations, Soil Vapor Extraction systems installed, GW Source actions taken, and monitoring systems initiated
- Still finishing follow on RODs that cover polishing steps and Institutional Controls



Actions at Reactors - Before



Actions at Reactors - During



Actions at Reactors - During



Actions at P Reactor – After





Collaboration and Three Party Decisions

- Team work approach employed to ensure meeting all FFA requirements while streamlining and accelerating process
- Requires dedication and commitment from each of the three parties
- Decision Documents "belong" to DOE, SCDHEC and EPA
- EPA must sign a ROD for it to be final per the requirements of the NCP





EPA Involvement Continues

- ◆ Ensure remedy is:
 - » designed and constructed according to plan
 » achieving the objectives outlined in the ROD
 » protective of human health & environment
- Regular effectiveness monitoring
- ♦ 5 Year Remedy Reviews
 - » EPA management and HQ involved in findings, and follow-up to 5-year reviews
 - » No end to the 5 Year Review Process





Current Activities and Projects

FFA commitments

- C Area
- P Area (groundwater)
- D Area (coal ash & gw)
- T Area (TNX groundwater)
- R Area (groundwater)
- A Area Units (ash & vadose)
- High Level Waste Tanks
- LLWD Facility (E Area)
- EJ Meetings

I EPA

- Integrator Operable Units
 - » Lower Three Runs Tail
 - » Steel Creek–Dunbarton Bay
- ♦ B Area (HWCTR)
- CMP Pits (groundwater)
- LArea (groundwater)
- ♦ D&D
- ♦ 5 year remedy reviews
- Field oversight
- ♦ CAB

There is a Great Deal Left to do!

♦ High Level Waste Tank Farms ♦ Ash Piles ♦ C Reactor ♦ K Reactor ◆ L Reactor F Canyon ♦ H Canyon

◆ L Lake ♦ PAR Pond ♦ Multiple streams ◆ E Area Multiple Groundwater Plumes **»**Tritium »Chlorinated Solvents



Questions

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