SAVANNAH RIVER SITE EMERGENCY PREPAREDNESS

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Purpose

- To satisfy SRS Citizens Advisory Board questions concerning the SRS Emergency Management Program by:
  - Providing an overview on the Savannah River Site Emergency Preparedness Program
• DOE Order 151.1C “Comprehensive Emergency Management Program”
  – Establishes the requirements for planning, preparedness, response, and recovery activities of emergency management programs.

• Implemented at SRS through the SRS Emergency Plan
  – Composed of 15 Sections and 9 Facility Annexes

• All contractors onsite agree to follow the provisions of the SRS Emergency Plan
SRS Emergency Plan Sections

Section 1 – Introduction
Section 2 – Emergency Response Organization (Internal)
Section 3 – Offsite Response Interfaces
Section 4 – Emergency Categorization and Classification
Section 5 – Notifications and Communications
Section 6 – Consequence Assessment
Section 7 – Protective Actions
Section 8 – Medical Support
SRS Emergency Plan Sections

Section 9 – Recovery and Reentry
Section 10 – Public Information
Section 11 – Facilities and Equipment
Section 12 – Training
Section 13 – Drills and Exercises
Section 14 – Emergency Management Program Administration
Section 15 – Emergency Management for Transportation
SRS Emergency Plan Annexes

Annex B – Defense Waste Processing Facility
Annex C – F-Area
Annex D – H-Area Completion Projects
Annex E – Liquid Waste Disposition
Annex F – Tritium Facilities
Annex H – Solid Waste
Annex I – Savannah River National Laboratory
Annex J – 100 Areas
Annex L – Ameresco Biomass Cogeneration Facility
DOE Order 151.1C, Emergency Management System

- Hazards
  - Surveys
- Emergency Planning
- Hazard Assessment

- Plans & Procedures
- Training
- Drills & Exercises

- Responding appropriately to the event

- Meet the requirements for terminating the event
- Plan and implement the processes needed to go back into “normal” operations
Hazards Survey

- Is a screening analysis of the chemical and radiological hazards in an area.
- Primary purpose is to determine if a facility within an area requires a Emergency Planning Hazards Assessment

Emergency Planning Hazards Assessment (EPHA)

- An EPHA is the technical basis for an Emergency Planning (EP) program, Emergency Action Levels (EALs), and the Emergency Planning Zone (EPZ)
- The EPHA analyzes hazards to determine the distance to the Protective Action Criteria (PAC).
The Emergency Planning Zone (EPZ) is developed in accordance with NUREG-0396, EPA 520/1-78-016, and DOE G 151.1-2.

SRS recommends protective actions for offsite portions of the Emergency Planning Zone. It is the local and state Emergency Management personnel who make the decisions on actions taken in those areas.

SRS Community Preparedness Information Brochure is developed and distributed within the Emergency Planning Zone annually by mail.

The brochure is distributed to Citizens Advisory Board.

The brochure is also available on the SRS external website: http://www.srs.gov
Comparison of Technical Documents

- **Documented Safety Analysis (DSA)**
  - DSA is intended to be used to develop controls to prevent or reduce consequences of postulated accidents.
  - Uses “bounding” accident analysis
  - Mitigating factors can be considered but can only be credited with reducing consequence if they meet strict design requirements

- **Emergency Planning Hazards Assessment (EPHA)**
  - An EPHA takes a conservative look at what is reasonably anticipated to occur in an accident
  - Uses “reasonable worst-case” not bounding accident analysis
  - Mitigating factors may be considered and can result in reducing consequences based upon expected conditions
• SRS has agreements with emergency management agencies, hospitals, fire departments, and law enforcement agencies in both South Carolina and Georgia

• Participation in the following meetings:
  – Local Emergency Preparedness Committees (Aiken, Barnwell, Edgefield Counties)
  – Fixed Nuclear Facilities (FNF)
  – Quarterly Issues
  – Radiological Working Group
  – CSRA FBI Weapons of Mass Destruction / Counter-Terrorism (WMD/CT) Meetings