



SAVANNAH RIVER SITE EMERGENCY PREPAREDNESS

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- **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



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

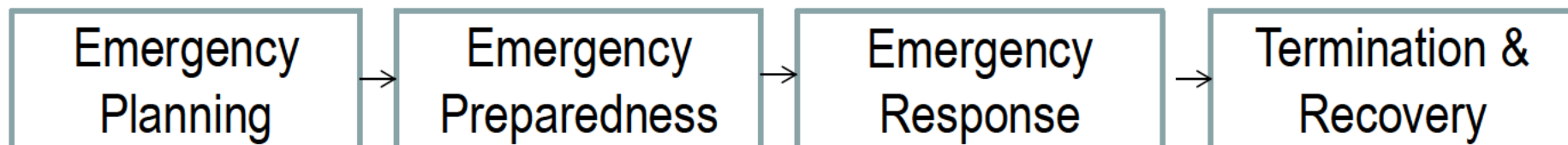
Annex I – Savannah River National Laboratory

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).

Emergency Planning Zone and Savannah River Site Community Brochure

- 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