

SITE SPECIFIC PLAN

PART 6, SCORERP



SAVANNAH RIVER SITE

September 2026

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I. INTRODUCTION

The Savannah River Site (SRS) Site Specific Plan, Part 6 of the South Carolina Operational Radiological Emergency Response Plan (SCORERP), provides for the guidance, coordination and utilization of state and other resources in support of local governments in the event of a radiological incident at the Department of Energy's (DOE) SRS, located in Aiken County. Savannah River Nuclear Solutions (SRNS) is the Emergency Services Management and Operating Contractor of this site for DOE. The SRS Site Specific Plan forms an integral part of the SCORERP and addresses matters pertaining directly to SRS not already addressed in the SCORERP Base Plan.

II. PURPOSE

To protect the populace, environment and property in areas that may be affected by a radiological incident at SRS and to provide for off-site recovery.

III. SITUATION AND ASSUMPTIONS**A. Situation**

1. SRS is a key DOE industrial complex that covers approximately 310 square miles of federally awarded land in western South Carolina. It is bounded by the Savannah River on the South Carolina/Georgia border and includes portions of Aiken, Allendale and Barnwell counties. The geographic coordinates are: 33° 15' 05" North Latitude and 81° 37' 30" West Longitude (See Figure 1).
2. During the Cold War, SRS served the nation by producing nuclear materials critical to its strong nuclear deterrent. While the need remains to continue this deterrence, the nation now faces additional challenges, including the proliferation of nuclear weapons and materials. The primary mission of SRS, since the Cold War period, has expanded from primarily a defense mission to one that includes environmental cleanup and stabilization, storage, and preparation for final disposition of nuclear materials.
3. Of the five nuclear reactors originally constructed at SRS during the 1950s, none are operational. Two reactors are decommissioned, and three others have been reconfigured for storage of various nuclear materials.
4. Portions of Aiken, Allendale and Barnwell counties are within the 10-mile Emergency Planning Zone (EPZ) (See Figure 1). All of the affected counties have formulated detailed radiological emergency response annexes, as part of their County Emergency Operations Plans (EOPs), and these annexes fully support the operational framework of the SCORERP.
5. There are no prevailing wind directions in the SRS area.

B. Assumptions

1. A radiological incident could occur at SRS that may cause an off-site hazard to residents and property. Planning for a radiological incident will facilitate an

effective response.

2. A radiological incident at SRS that presents off-site radiological hazards will involve the governments of Aiken, Allendale, and Barnwell Counties of South Carolina. Therefore, state government will be required to provide direction, coordination and support in accordance with the State Code of Regulations 58-1 and 58-101.

IV. CONCEPT OF OPERATIONS

A. General

1. See the South Carolina Emergency Operations Plan, Base Plan, Section VII. Concept of Operations.
2. See SCORERP, Base Plan, VI. Concept of Operations, A. Direction and Control.
3. State and Emergency Managers in the potentially impacted areas should identify and be prepared to designate Alternate EOCs, should primary EOCs become inaccessible.

B. Specific

1. Alert and Notification

- a. Alert and Notification procedures are designed to inform and instruct the populace in EPZs.
 - (1) A fixed siren system is the primary means used to alert the public within the 10-mile EPZ.
 - (2) Public protective actions will be communicated to residents via the Emergency Alert System (EAS) when deemed necessary by State and local officials and approved by the SCEMD Director or the Director's designee.
 - (3) IPAWS messages will be coordinated through Emergency Support Function-15 (ESF-15) with the SWP utilizing existing plans and procedures for the system. (South Carolina IPAWS Plan, ESF-15 SOP, State Warning Point SOP).
- b. See Annex 1 (Alert and Notification) for additional information on alert and notification of the public.

2. State Emergency Operations Center (SEOC)

- a. The SEOC may be activated upon notification of an ALERT Emergency Classification Level (ECL). Direction and control of State emergency response forces will emanate from the SEOC.

- b. The South Carolina Department of Public Health (SCDPH) and South Carolina Department of Environmental Services (SCDES), under the auspices of ESF 8 and 10, will be co-located in the SEOC. A SCDES technical representative will be dispatched to the SRS Emergency Operations Center (EOC), located at SRS Building 703-A (See Figure 1), and to the affected county or counties.
 - c. SRS will provide a technical representative to the SEOC and the county EOCs.
 - d. SCEMD will provide Radiological Emergency Preparedness (REP) and/or Regional Emergency Manager (REM) liaison officers to both host and risk county EOCs.
3. Local
- a. County/Municipal governments are responsible for local radiological emergency response within their jurisdictions, except for technical radiological assessment.
 - b. County/Municipal governments will coordinate with the Governor of SC or his/her designee (normally the director of SCEMD) along with state agencies, departments, and local emergency response organizations pursuant to this plan.
 - c. Once the SEOC personnel have validated requests and verified available resources, additional assets may be furnished to aid local agencies.
4. Traffic Management
- a. Upon declaration of a Site Area Emergency (SAE), ESF 16 (Emergency Traffic Management), led by the South Carolina Highway Patrol (SCHP), will coordinate the occupation of all Traffic Control Points (TCPs) with the County Sheriff or Chief law enforcement officer within the 10-mile EPZ.

The purpose of TCPs is to provide assistance during an evacuation and prevent access to restricted areas. TCP locations are depicted in Figure 1 as Traffic Control Points.
 - b. The security contractor at SRS will have responsibility for controlling access to the site.
 - c. The South Carolina Department of Natural Resources (SCDNR) Law Enforcement Division (lead agency) in conjunction with the Georgia Department of Natural Resources (DNR) Law Enforcement Division and Burke County (Georgia) Emergency Management Agency (EMA) will conduct water patrol activities to evacuate hunters, fishermen and campers from the affected area of the Savannah River (See Figure 1). The SCDNR will coordinate with the U.S. Coast Guard to secure the river.

- d. Only pre-designated forms of identification will be honored at security check points as outlined in SCORERP, Base Plan, Attachment D.
 - e. Local authorities are responsible for security and traffic control within their jurisdictions during all phases of a radiological incident. The Department of Public Safety will coordinate requests from local authorities when reinforcements are required.
5. Radiological Monitoring and Decontamination
- a. See SCORERP, Base Plan, Annex 6 (Radiological Exposure Control).
 - b. County teams with specialized training will conduct radiological monitoring and decontamination of evacuees, emergency workers, vehicles, and equipment with technical assistance provided by SCDES, as required.
 - c. Aiken, Allendale, and Barnwell Counties have designated radiological monitoring and decontamination points. The location of each monitoring and decontamination point is contained within county EOPs.
 - d. SCEMD is responsible for the calibration and maintenance of radiological monitoring equipment for Aiken, Allendale, and Barnwell counties.
 - e. The South Carolina Radiological Equipment and Personnel Redistribution Standard Operating Procedures can be activated to provide personnel and equipment support in the event of an incident at SRS.
6. Evacuation
- a. See SCORERP Base Plan, section VI. Concept of Operations.
 - b. The Sheriff (as Chief Law Enforcement officer of the affected county) will, in coordination with the SCHP and other law enforcement agencies, coordinate evacuation activities in accordance with the affected county's EOP.

(1) Residential Population (based on the 2025 Data)

<u>Population Densities</u>	
<u>Zone</u>	<u>Population</u>
G-7	1,119
G-8	1,781
G-9	312
G-10	10
H-6	859
H-7	1,183
H-8	196
H-9	20

<u>Population Densities</u>	
<u>Zone</u>	<u>Population</u>
H-10	10
Total	5,490

- (2) Evacuation confirmation time will take between 4-5 hours.
- (3) Population Distribution Map (See Figure 3).
- c. Evacuation Zones, Landmark and Boundary Descriptions (See Table to Figure 1).
- d. Aiken, Allendale, and Barnwell counties have designated evacuation routes for persons living, working, and transiting the 10-mile EPZ. These routes lead to reception centers/shelter areas (See Figure 1).
- e. The affected county will provide transportation for evacuees who do not have transportation and confined persons who require special transportation. State assistance may be requested. Special transportation needs are addressed in the Aiken, Allendale and Barnwell County EOPs.
- f. All evacuees will be processed through shelters or reception centers as outlined in Annex 2 (Reception Centers and Shelters). Each evacuee will be monitored, registered and processed, including those who elect not to accept temporary shelters. For control and re-entry purposes, each county will maintain records for contact with evacuees. Temporary housing should be located at least five miles from the 10-mile EPZ outer boundary (15 miles from the nuclear facility site).
- g. See SCORERP Base Plan for reentry, return, reoccupancy, and relocation information.
- 7. Radiological Exposure Control
 - See SCORERP, Base Plan, Annex 6 (Radiological Exposure Control).
- 8. Transportation
 - a. Due to the expanse of SRS, a buffer zone exists which reduces the impact of a radiological incident on the off-site populace. Only small portions of the EPZ extend beyond the SRS boundaries. The road system in these areas provides multiple primary and alternate routes for evacuation and accessibility to the area.
 - b. Counties and municipal governments have plans for acquiring emergency transportation in the event of a radiological incident. The means for evacuating schools, jails, individuals with functional needs, and residents without private transportation are identified in county plans.

- c. State transportation resources may be requested to augment county transportation requirements.
- 9. Medical
 - a. See SRS Annex 3 (Health and Medical Support).
 - b. See SCORERP, Base Plan, Annex 5 (Health and Medical Support).
- 10. Communications
 - a. In the event of an emergency at SRS, the site can notify the state and local emergency response networks on a 24-hour basis. Communications between the SRS and State and local Emergency Operations Centers (EOCs) are maintained through the following means:
 - (1) The Emergency Notification Network (ENN), a dedicated radio system connecting SRS with the SWP, State of Georgia, and County EOCs. ENN is used to provide initial and updated information concerning SRS status. ENN is also used to discuss activation of the NWR/EAS public notification systems and protective action decision-making.
 - (2) Standard commercial and satellite telephone lines.
 - (3) A radio channel to the SCEMD Local Government Radio (LGR) network at the SRSOC, with the capability of communicating with the SEOC and Counties.
 - (4) A conference bridge is utilized for the purpose of ORO protective action discussions and decision making.
 - b. County communications officers are responsible for communications within their jurisdiction during a radiological incident. Their responsibilities include the activation of communications systems, the maintenance and operation of primary and alternate systems on a 24-hour basis and reporting the system's status during an emergency. The responsible parties are:
 - (1) Aiken County: E911 Dispatcher (Communications Officer), responsible to the Coordinator, Emergency Management Agency.
 - (2) Allendale County: E911 Dispatcher (Communications Officer), responsible to the Director, Emergency Management Agency.
 - (3) Barnwell County: E911 Dispatcher (Communications Officer), responsible to the Barnwell County Sheriff, who coordinates with the Emergency Management Director.

- c. Communications with local governments within the 10-Mile EPZ will be tested monthly. Communications between the site, state, local emergency operations centers, and field assessment teams shall be tested annually. Communication drills will also include the aspect of understanding the content of messages.

11. Training

County directors and directors of State agencies are responsible for assuring radiological emergency response training is conducted in accordance with the SCORERP, Base Plan, Annex 2 (Training).

12. Drills and Exercises

- a. See SCORERP, Base Plan, Annex 4 (Exercises and Drills).
- b. Exercises are designed to test all elements of emergency preparedness plans pertaining to SRS and the capability of support elements in the 10-mile EPZ cited in such plans. An annual exercise will be conducted and will involve mobilizing state and local government personnel and resources adequate to verify capability to respond to an incident scenario (simulated emergency) at SRS. The exercise will be evaluated and critiqued by DOE personnel.
- c. Drills are supervised periods of instruction designed to test, develop, and maintain skills of individuals who form a part of radiological emergency response organizations. County directors shall ensure that drills are conducted by qualified instructors at the frequency listed in the SCORERP, Base Plan, Annex 4, conduct drills.

V. ORGANIZATION AND ASSIGNMENT OF RESPONSIBILITIES

- A. State (See SCORERP, Base Plan, section VIII).
- B. Local (See Aiken, Allendale, and Barnwell County EOPs).
- C. Organizational relationships (See Figure 4).

VI. ADMINISTRATION AND LOGISTICS

- A. See the South Carolina Emergency Operations Plan (SCEOP), Annex 7, (Finance and Administration).
- B. Counties provide their own administrative and logistic support. Requests for augmentation may be submitted in accordance with SCEOP.

VII. DIRECTION AND CONTROL

- A. SEOC

The SEOC is located at 2779 Fish Hatchery Road, West Columbia, South Carolina 29172.

B. County Emergency Operations Centers

1. Aiken: Aiken County Government Center, 1930 University Parkway, Aiken, South Carolina 29801.
2. Allendale: Emergency Readiness Building, 911-B Main Street North, Allendale, South Carolina 29810.
3. Barnwell: Barnwell County Administration Building, 57 Wall Street, Barnwell, South Carolina 29812.

C. Savannah River Site

The SRS EOC is located in Building 703-A. The Alternate EOC is located in Building 735-B, Room 130.

TABLE 1 – SAVANNAH RIVER SITE 10-MILE EPZ MAP ZONE DESCRIPTIONS

State Traffic Control Points
S-1: SC 125 and S-2-63
S-2: SC 302 and SC 125
S-3: SC 302 and US 278
S-4: S-3-12 (Millet Rd.) and SC 125

Aiken County Traffic Control Points
AK-1: S-2-5 (Old Jackson Hwy) and Brown Road
AK-2: S-2-5 (Old Jackson Hwy) and S-2-32 (Silver Bluff Road)
AK-3: S-19 and US 278
AK-4: S-2-57 (Green Pond) and US 278

Barnwell County Traffic Control Points
B-1: SC 278 and S-64.
B-2: Hwy 39 and U.S. 278
B-3: SC 64 and SC 70 and US 278

Primary Evacuation Routes

G-7: SC 5 north to SC 302 north to Pine Log Road to South Aiken High School.

G-8: SC 125 north to SC 302 north to Pine Log Road to South Aiken High School.

G-9 and G-10: Brown Road north to SC 5 (Old Jackson Hwy), north on SC 5 to SC 302 (Silver Bluff Road), north on SC 302 to Pine Log Road to South Aiken High School.

H-6: US Hwy 278 south to Guinyard-Butler Middle School.

H-7: SC 3 northeast to US Hwy 278, north to Guinyard-Butler Middle School.

H-8, H-9, and H-10: SC 125 southeast to US Hwy 278, south to Allendale-Fairfax High School.

ZONES	LANDMARK DESCRIPTIONS	BOUNDARY DESCRIPTIONS
G-10	Cowden Plantation	In Aiken County: Sector G-10 is bordered on the north by a line from Grays Landing on the Savannah River to the intersection of the CSX track and Cowden Plantation Road; on the East by the Savannah River Site (SRS) boundary and the CSX track; on the south by the Savannah River and the SRS boundary; and on the west by the Savannah River.
G-9	Hankinson, Cowden Plantation	Bordered on the west by the Savannah River. On the north, start at the Savannah River at Silver Bluff. Follow Hankinson Road from the river until it dead-ends at SC5 (Main Street). Take SC5 into Jackson (southeast until the city limits). Draw a line approximately south to Landing Road (Road #299) at the Assembly of the Lord Church. Then draw a straight line to the SRS boundary at the unincorporated Jackson Town boundary (the place where Brown Road swings away from the SRS boundary). Follow the SRS boundary south to the CSX track. Follow the CSX track north to the Cowden Plantation Road. Follow the Cowden Plantation Road to Grays Landing at the Savannah River.
G-8	Jackson	Start at SC125 and the SRS boundary. Follow the boundary West and South to the unincorporated Jackson town boundary. (The place where Brown Road swings away from the SRS boundary.) Then draw a straight line from the SRS boundary to Landing Road (Route #299) at the Assembly of the Lord Church. Then draw a line approximately northeast, to the city limit of Jackson on Main Street (Route 5). Take Baker Street (Route 63) east to SC125 and follow SC63 to SC57. Then take SC57 back to the Southeast until it intersects with the SRS. Then follow the SRS boundary back to the start.
G-7	Jackson	Start at the intersection of SC5 and the unincorporated boundary of Jackson. Follow the boundary north to SC125. Take SC125 southeast to Dragstrip Road (Route #1409). Follow Route 1409 and then straight onto Route #1859 until US Hwy 278. Take US Hwy 278 east to the intersection of SC19. Follow the Sumter National Forest/SRS border back to the Southwest to SC57, which is the edge of Sector G-8. Now follow SC57 to the northwest to SC63, and then SC63 back to SC5.
H-6	Barnwell County Airport	The starting point is Barnwell County SC68 at the boundary of SRS. Go east on SC68 to US Hwy 278.

ZONES	LANDMARK DESCRIPTIONS	BOUNDARY DESCRIPTIONS
		Go southeast on 278 (towards Barnwell) to Buck Creek. Follow Buck Creek and the Salkehatchie River south until it passes under SC64. Take SC64 west until it enters SRS. Follow the SRS boundary west and then north back to the starting point
H-7	Snelling, Owens Crossroads, Lynhurst	The starting point is the intersection of SC Hwy 64 and SRS. Go east on SC64 to where it crosses the Salkehatchie River. Go South on the Salkehatchie River to where it passes under Barnwell County Route 69. Take Route 69 South and East to SC 3. Turn right on SC3 and follow it South to Barnwell County Route 39. Turn right and follow Route 39 to the Barnwell County-Allendale County line. Follow the county line west to SRS and follow the SRS boundary north to the starting point.
H-8	Allendale/Barnwell, Stenson Bridge, Dunbar Store	The starting point is the intersection of the Allendale County-Barnwell county line and Allendale County Route 65. Follow Route 65 south approximately 1.6 miles to the dirt road and turn right. Follow this road to Allendale County Route 45 and turn left. Take Route 45 South to SC125. Turn right on SC125 and follow it to the St. Mary's Church. Exclude the church and cemetery and go to the SRS boundary. Follow the SRS boundary north to the Allendale County-Barnwell County line and follow the County line east to the starting point.
H-9	Dunbar Store, Millett	The starting point is SC125 at the Creek Plantation Road. Follow SC125 East to Allendale County Route 17. Turn right and follow Route 17 to the dead-end at Route 12. Turn left onto Route 368. Follow Route 368 South to the Savannah River. The Savannah River is the west boundary. For the north boundary, follow Plantation Road from SC125 to the Savannah River.
H-10	Creek Plantation	In Barnwell County, Zone H-10 is bordered on the north by the SRS boundary and SC125 extending into Allendale County (the north boundary of H-10 leaves SC125 to go around St. Mary's Church and cemetery); in Allendale County on the east by Creek Plantation Road; on the south by the Savannah River; and in Barnwell County on the west by the SRS boundary.

FIGURE 1-SAVANNAH RIVER SITE 10-MILE EPZ MAP ZONE DESCRIPTIONS

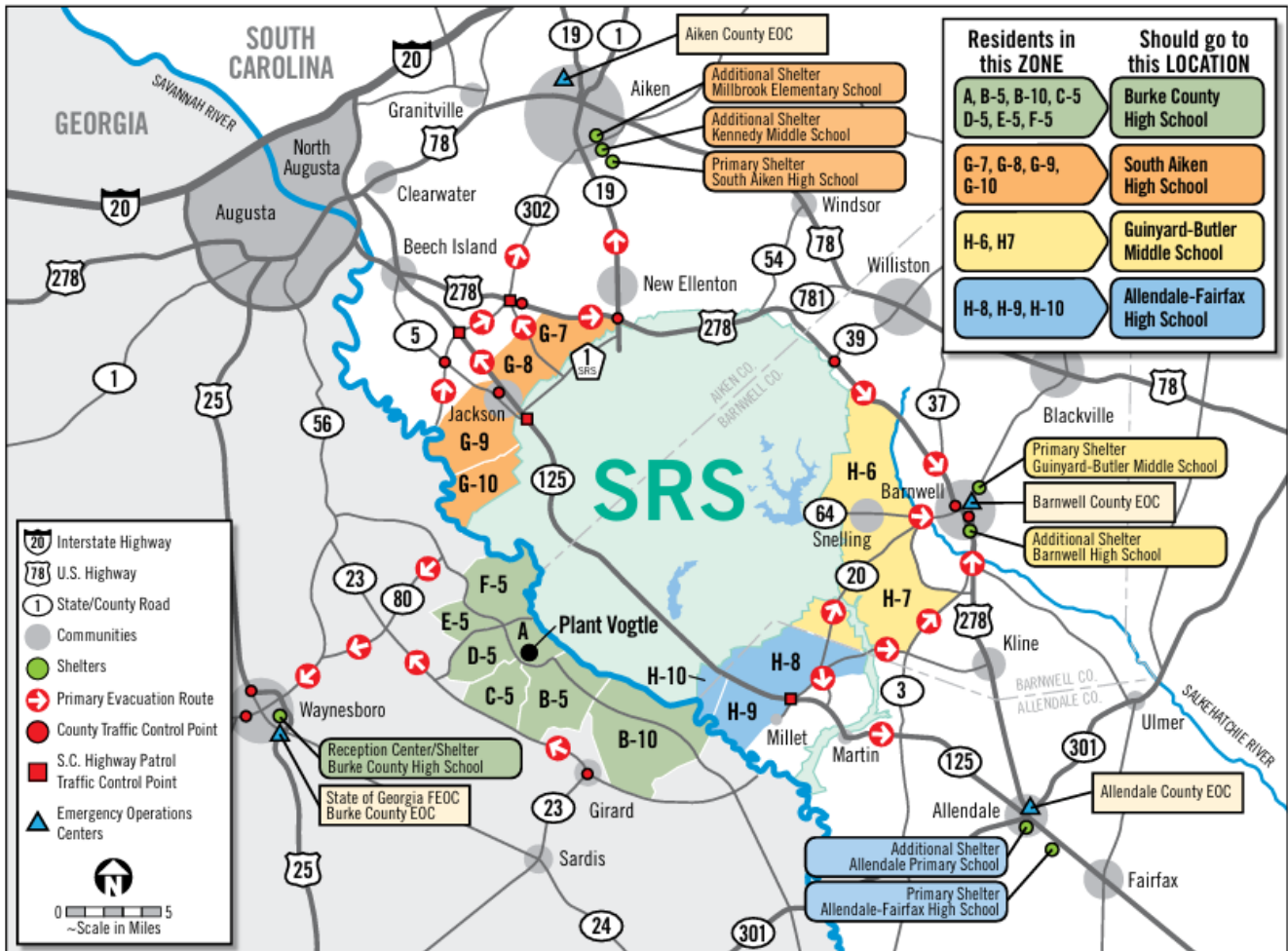


FIGURE 2 – SRS 10-MILE EPZ POPULATION DISTRIBUTION MAP

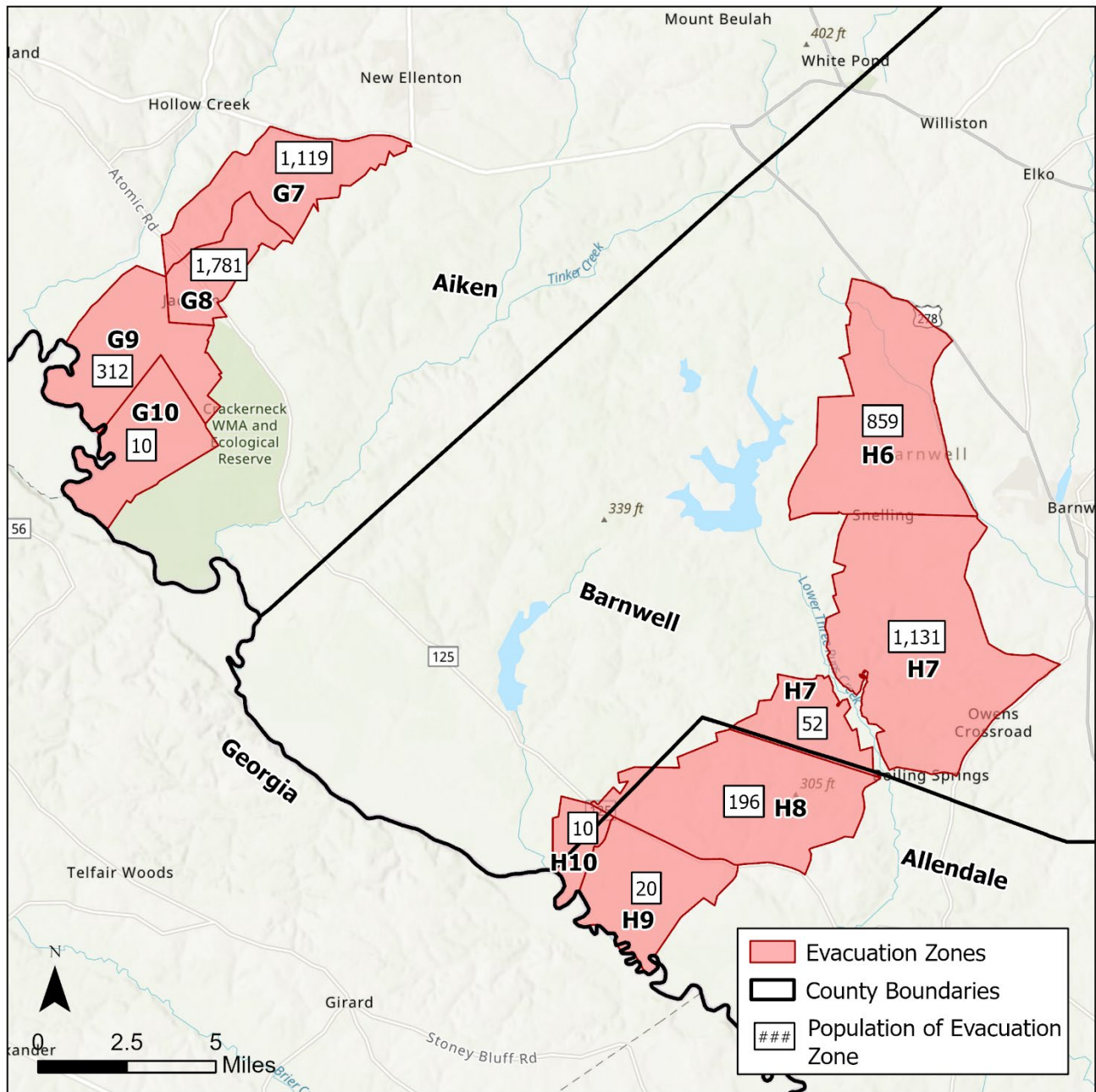




FIGURE 4 – EMERGENCY NOTIFICATION FORM

Form Rev. 07-27-2021		SRS Notification Form		Printed at 1054	Page 1 of 2
Savannah River Site, Aiken, South Carolina					
1. Notification Type: ☐ [A] Drill ☐ [B] Emergency ☐ [C] Courtesy ☐ Initial ☐ Follow-Up					Message #
2. Type of Incident: ☐ [A] Radiological ☐ [B] Chemical ☐ [C] Dam ☐ [D] Security ☐ [E] Other					
3. Location: _____					
4. Reported By: _____					
(Name) (Phone #)					
5. Declaration: ☐ [A] N/A ☐ [B] Operational Emerg. ☐ [C] Alert ☐ [D] Site Area Emerg. ☐ [E] General Eme					
6. Emergency: ☐ [A] N/A ☐ [B] Declared At ☐ [C] Terminated At (Time/Date) _____					(Eastern) (mm/dd/yyyy)
7. ☐ N/A		EPIP#: _____		EAL #: _____	
				Appendix/Attachment: _____	
8. Description / Remarks: _____					
9. Meteorological Data ☐ [A] Wind Direction (from) _____ ☐ [B] Speed (mph) _____					
☐ [C] Stability Class _____ ☐ [D] Precipitation (type) _____					
10. Recommended ☐ [A] No Recommended Actions Are Requested at This Time					
Offsite Protective ☐ [B] Evacuate _____					
Actions ☐ [C] Shelter-in-Place _____					
11. Emergency Response Guide Protective Action: ☐ N/A ☐ Isolation Zone ☐ Downwind					
FOLLOW-UP INFORMATION (Lines 12-14) NOT REQUIRED FOR INITIAL NOTIFICATION					
Lines 12 through 16 are not required for incidents not classified as an Alert or higher.					
12. Release Information: ☐ [B] Medium: ☐ Air ☐ Soil ☐ Water-Pathway: _____					
☐ [A] N/A ☐ [C] State: ☐ Solid ☐ Liquid ☐ Gaseous _____					
☐ [D] Type: ☐ Elevated (Stack) ☐ Ground _____					
☐ [E] Started: _____					
☐ [F] Stopped: _____					
(Eastern) (mm/dd/yyyy)					
13. Radiological Release: ☐ [A] N/A ☐ [B] To Be Determ. ☐ [C] Default Source Term ☐ [D] Curies / Min. ☐ [E] Curi					
☐ [F] Pu-238 equiv. ☐ [G] Tritium _____					
14. Chemical Release ☐ [A] N/A ☐ [B] To Be Determ. ☐ [C] Default Source Term ☐ [D] Refined Source Term					
Pounds or Gallons	Substance	CAS Num	CERCLA HS*	EPCRA EHS*	
Lines 15 & 16 will be completed ONLY after receipt of an approved dispersion modeling run.					
15. Projected Site Boundary Dose ☐ N/A ☐ To Be Determined ☐ New ☐ Unchanged					
CED _____ (mrem)	Other _____	Projection Time _____ (Eastern)	ETA @ SB _____ (Eastern)	Est. Duration _____ Hrs	
16. Ingestion Pathway Advisories ☐ [A] None ☐ [B] See text below ☐ [C] Previously issued advisories are cancelled					
17. Approved By _____					
Name		Title		Transmittal Time/Date	Time mm/dd/yyyy

FIGURE 5 – EMERGENCY NOTIFICATION FORM, cont.

Page 2 of 2

Continue Description/Remarks

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