

WINYAH GENERATING STATION
EMERGENCY ACTION PLAN
UNIT 3&4 SLURRY POND

Scope

The purpose of this plan is to quickly notify affected individuals of an imminent or actual failure of the Winyah Generating Station (WGS, Winyah) Unit 3 & 4 Slurry Pond and to protect human life. It is intended to prioritize communications with affected homeowners and with emergency response agencies. *Additional environmental reporting would still be required following [Santee Cooper BMP procedures](#).*

Introduction and Physical Description

The Winyah station's Unit 3 & 4 Slurry Pond was commissioned in 1980 to manage wastewater and flue gas desulfurization residuals. It also managed wastewater and stormwater from the station's limestone handling and coal pile areas, and the capped West Ash Pond. The pond's perimeter dikes are 30 ft. in height, with dike slopes ranging from 2:1 to 3:1 (horizontal: vertical). The dike elevations are 38 ft. (NGVD29) with a crest 15 ft. wide. The pond's total storage capacity is approximately 2,850 acre-feet, with about 8 acre-feet of slurry and water remaining in the pond. The pond treats water through gravity settling, with treated water being discharged to the Cooling Pond's discharge canal. The initial periodic hazard potential assessment was completed in 2016 and the WGS Unit 3 & 4 Slurry Pond received a High Hazard Potential classification due to the proximity of one residential structure. In the unlikely event of a failure of the Slurry Pond, the potential downstream impacts were modeled and are delineated in Attachment 1, with potential impacts to the nearby residential structure.

The Slurry Pond stopped accepting wastewater inflows and any solid waste as of April 11, 2021. This pond is currently undergoing closure by removal of CCR material in accordance with the Federal CCR Rule. The written Closure Plan prepared pursuant to §257.102(b) is posted to the Operating Record and on the [publicly available website](#).

Potential Safety Emergencies

The most likely cause of a safety emergency is an earthquake due to the proximate location of the Charleston seismic zone or excessive flooding as a result of a hurricane or coastal storm event. To reduce the risk of material being released in the event of a failure, the normal operating level of the pond was lowered to 19.6 ft. NGVD29, which is controlled by a floating pump station. A subsequent periodic hazard potential assessment was completed in 2021 with the WGS Unit 3 & 4 Slurry Pond again receiving a High Hazard Potential classification due to the proximity of one residential structure.

Preparedness

- Perform both weekly (within every 7 days) and annual BMP inspections as described in the Federal CCR Rule.
- Perform pre-landfall and post-landfall hurricane inspections utilizing the 7-day Landfill & Impoundment inspection form for Slurry Pond 3 & 4 to document pre and post hurricane conditions, and to identify potential issues that may arise from excessive rainfall.
- Perform Flood Watch inspections utilizing the 7-day Landfill & Impoundment inspection form for Slurry Pond 3 & 4 to document pre and post flood conditions and to identify potential issues

Preparedness (Cont.)

that may arise from excessive rainfall events over 10.9-inches in 24-hours (i.e. 100-Year, 24-hour storm).

- Sign up for USGS earthquake notification with magnitude 5.0 or greater in coastal South Carolina near Winyah – WGS Station Manager and Control Room, WGS Station Superintendents, Generation Services Manager, Generation Technical Services (GTS) Superintendent and Environmental Engineer, Waste Management Manager (or equivalent), Civil Projects Supervisor, and Spill Hotline (who will assist in notification and reporting only).
- Include the WGS Control Room on the ECC notification list for a seismic trigger at the Santee Spillway.
- Annual evaluation, to include:
 - Annual meeting with local emergency responders following the Santee Cooper EAP Flow Chart (Attachment 2) and updating contact names and telephone numbers as necessary.
 - Annual review of homeowner safety plan with homeowner to update contact names and telephone numbers as necessary (Attachment 3).
 - Annual check of inundation area by Santee Cooper and local emergency preparedness officials (if available) to ensure no other buildings are in the inundation area and, if so, obtain contact names and telephone numbers as necessary.

Detection

- Conduct hurricane and flood watch inspection prior to and after hurricane landfall and before (anticipated) and after 10.9-inch rainfall accumulation events within 24-hours. If an inspection identifies an issue, follow Response protocol
- Immediately upon (1) feeling tremors at the station site, (2) receiving USGS notification of a triggering event (magnitude 5.0 or greater) or similar notification from the Santee Spillway, or (3) identifying a serious structural issue during a routine inspection follow Response protocol.

Response

- Initiate the EAP Flow Chart (Attachment 2).
- Initiate immediate inspection by trained personnel (likely WGS Bulk Materials personnel and/or Shift Supervisors) to determine if a failure or impending failure has occurred.
- If a failure is imminent or has occurred, initiate the notification actions which includes immediately notifying the homeowner and, if assistance is needed, calling 911.
- If a failure or impending failure has not occurred, verify the situation is safe and notify the station manager or designee, the homeowner and Generation Technical Services.
 - GTS will consult with a trained Professional Engineer to determine if a follow-up inspection is required.
 - Stakeholders will be informed of the results of the follow-up inspection, if performed, and provided a copy of the final report within 24 hours of its completion.

Revision and Distribution Requirements

Following the requirements of 40 CFR 257.73(a)(3), this plan must be evaluated every five years and revised as necessary. The plan's contact information and process will be reviewed annually as part of the annual evaluation and updated if appropriate. Changes in hazard potential, etc. will be evaluated on an on-going basis, but at least as part of the quinquennial review (including hazard potential classification, structural stability evaluation by a third party, and safety factor assessments). Updated plans will be posted on the CCR website online and distributed to each individual/office included on the notification list (Attachment 4). This plan was based on the initial versions of this periodic, quinquennial review, published in fall 2016 as well as the subsequent review performed in 2021 that retained the same hazard classification.

Certification

This Emergency Action Plan meets the requirements of 40 CFR 257.73(a)(3).



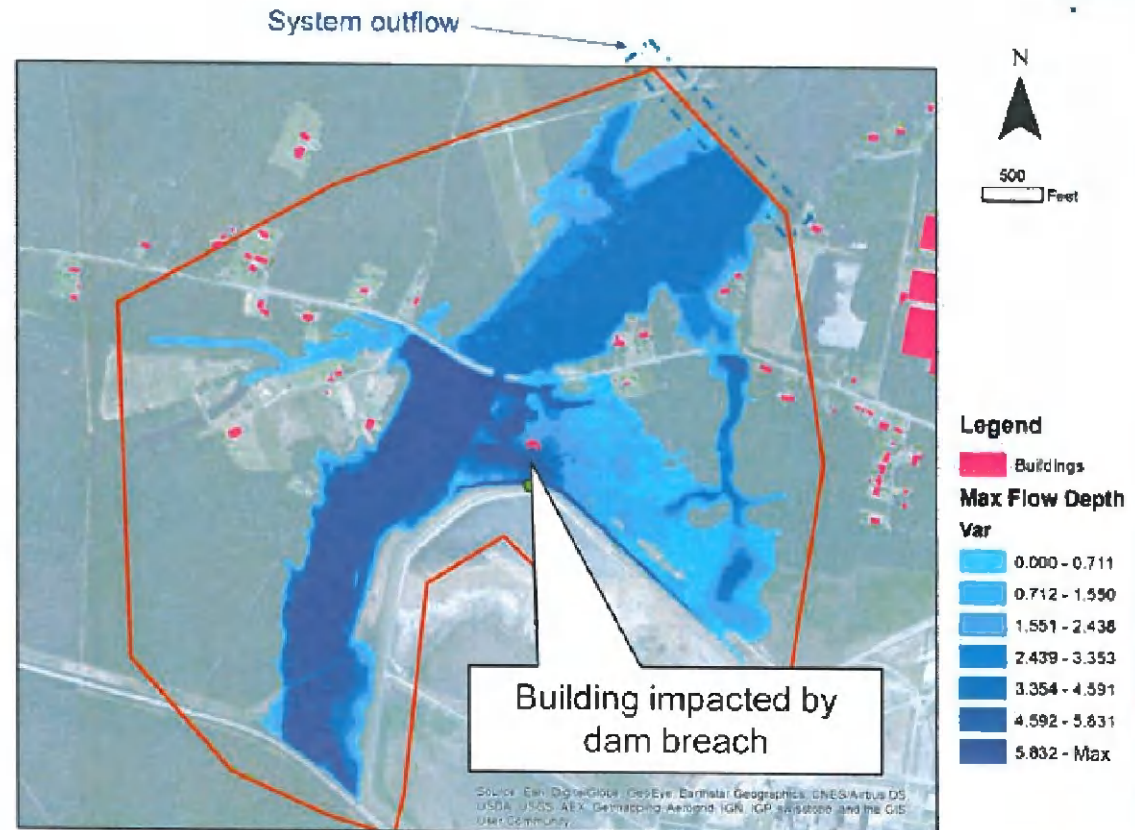
Jeremy Poetzsch
Senior Engineer, GTS

7/14/2026

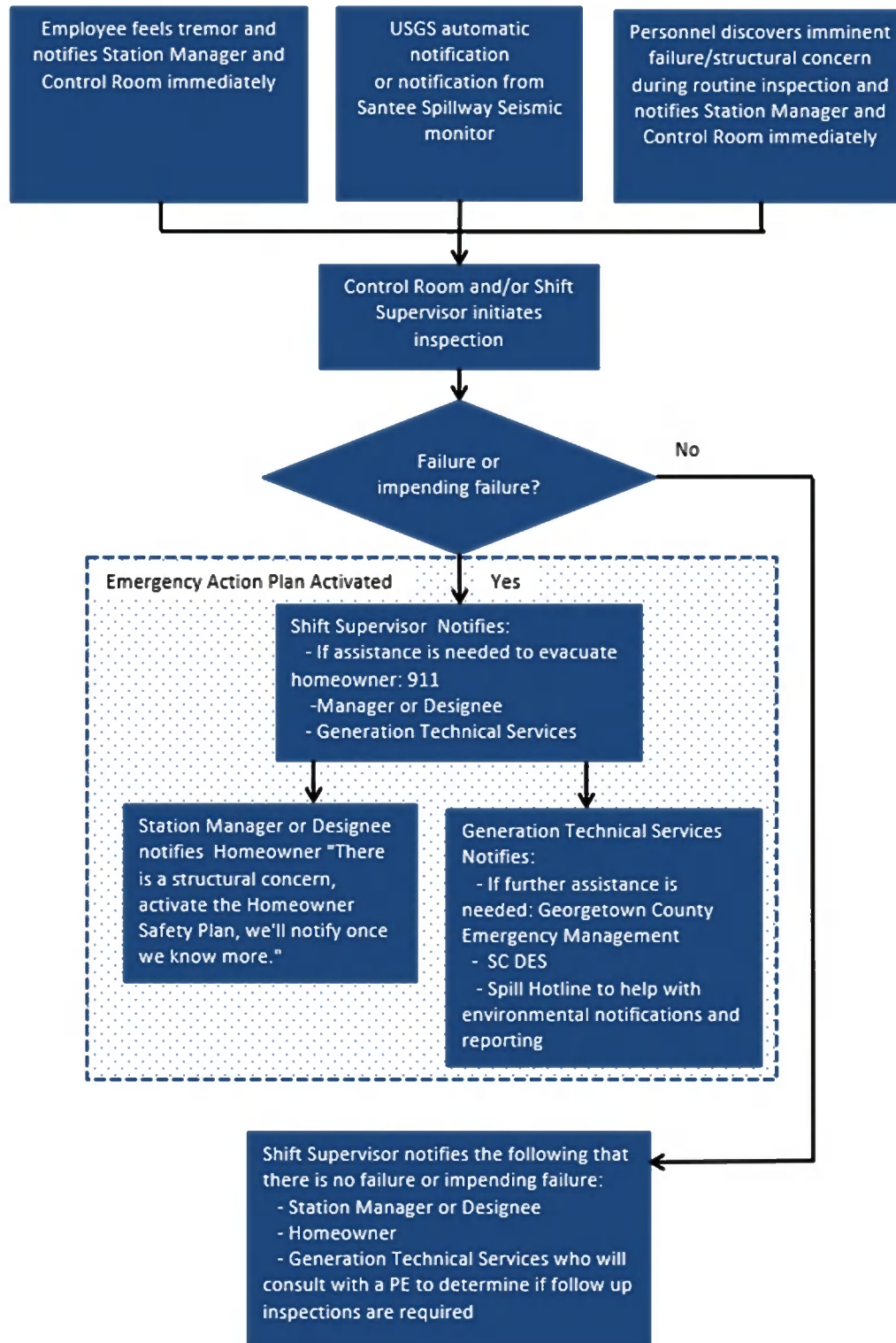
Date

10-foot Grid Cell FLO-2D Results

- Inundation Area
 - Pennyroyal Creek
 - 1 Building Impacted
- Max Depth
 - Approx. 15.3 feet
- Max Velocity
 - Approx. 21.2 fps



Attachment 2: EAP Flow Chart



******Contact numbers listed in Attachment 4!!!******

Attachment 3: Homeowner Safety Plan.

Santee Cooper has determined that your home could be affected by water and material from one of our wastewater ponds in the event of a structural failure. The most likely failure scenario is a serious earthquake, such as the Charleston earthquake of 1886.

In the event that you become aware of a Winyah Unit 3 & 4 Slurry Pond issue, visibly identify a pond structural issue, or experience a potential earthquake, contact the Unit 1 & 2 Control Room at (843) 761-8000, ext. 2428 or the Unit 3 & 4 Control Room at (843) 761-8000, ext. 2444

In the event that you are notified of a failure or impending failure of the Winyah Unit 3&4 Slurry Pond, immediately retreat to the second floor of your home. If you are notified while you are not at home, we suggest you remain where you are until you receive further word from Winyah station personnel or first responders.

- In the event that Santee Cooper detects or is notified of an earthquake resulting in a failure or impending failure, we will immediately call to provide notice to you. Santee Cooper will also notify you if, after a routine inspection, we observe a serious structural problem at the impoundment that results in a failure or impending failure. Upon receiving such a call, you should immediately retreat to the second floor of your home.
- Concurrently, Santee Cooper will notify local emergency responders to be on-notice should evacuation be necessary, and we will dispatch trained inspectors to the pond to look for signs of damage.
- Upon completion of the inspection, you will be contacted again and informed of the results of the inspection.
 - If an emergency situation *is* detected, we will immediately contact you and local emergency response personnel.
 - If an emergency situation *is not* present, we will immediately contact you with further information and guidance. We will also consult with a trained Professional Engineer to determine if a follow-up inspection is needed. You will be kept informed of the results of this follow-up inspection and provided a copy of this report within 24 hours of its completion.

Attachment 4. Notification Telephone Numbers and Plan Distribution List.

Winyah Station Manager

Ged Moree

o) (843) 761-8000, ext. 2402
[REDACTED]

Santee Cooper employees' cell phone numbers to be redacted for online posting in this section.

Winyah Control Rooms

Unit 1 & 2 (843) 761-8000, ext. 2428

Unit 3 & 4 (843) 761-8000, ext. 2444

Generation Services Manager

Matt McCants

o) (843) 761-8000, ext. 5158
[REDACTED]

Generation Technical Services Superintendent

Domenic Ciccolella

o) (843) 761-8000, ext. 7078
[REDACTED]

Generation Technical Services Senior Engineer

Jeremey Poetzsch

o) (843) 761-8000, ext. 5035
[REDACTED]

Georgetown County Emergency Management – to be contacted after calling 911, if needed

Weekdays (843) 545-3273

24-Hour (843) 503-6831

SCDES

Emergency, SCDES's Emergency Response Number: (888) 481-0125

Other, SCDES Director of Water Facilities Permitting, Bureau of Water: (803) 898-4157

Homeowner Contact Information:

Emergency Use Only, Not For Publication Online!!!

Homeowner [Private]: [REDACTED]

h) [REDACTED]

c) [REDACTED]

Address: [REDACTED]

Names, addresses, and telephone numbers to be redacted for online posting in this section.

Revision Date	Description	Prepared by
	Original	Generation Technical Services
03/02/2018	General revision/review	Generation Technical Services
04/24/2019	Update contact information and physical description of the pond, add calling 911 to the verification plan	Generation Technical Services
04/15/2020	Update contact information	Generation Technical Services
05/25/2021	Update contact information	Generation Technical Services
05/17/2022	Minor plan updates: • 2021 Quinquennial Hazard Potential Classification update • 2021 Notice of intent to close CCR unit update • Update contact information	Generation Technical Services
05/03/2023	Minor plan updates: • Update contact information	Generation Technical Services
08/08/2024	Minor plan Update: • Update Preparedness and Detection Sections • Updated Homeowner/Control Room Notification Protocol	Generation Technical Services
07/25/2025	Minor plan Update: • Update Station Manager • Updated USGS Notification List • Updated SCDES Acronym	Generation Technical Services
07/14/2026	Minor plan Update: • Update Georgetown Co. EMS 24-Hour Contact Phone Number • Updated USGS Notification List	Generation Technical Services