



Contingency Plan
Revision 0

Johnsonville Fossil Plant
Rock Buttressing
(TVA Project ID 605792)
New Johnsonville, Tennessee

Stantec Consulting Services Inc.
Design with community in mind
www.stantec.com

Prepared for:
Tennessee Valley Authority
Chattanooga, Tennessee

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1. Purpose

This Contingency Plan is provided to identify potential hazards and contingency actions associated with the Rock Buttressing project at the Johnsonville Fossil Plant (JOF) in Humphreys County, Tennessee. Guidance is provided to the Contractor in the event that construction activities adversely impact the adjacent Ash Disposal Area No. 1 or Kentucky Lake. Specific construction activities and corresponding hazards are described along with information describing appropriate responses to mitigate these hazards. The contingency actions should be implemented immediately upon noticing any of the adverse events described below. However, they are considered temporary in nature. If any adverse events described occur, TVA and Stantec representatives should be contacted immediately to determine final resolution.

2. General Project Description

The purpose of the Rock Buttressing project is to provide erosion protection and improve the maintenance for the dike slope adjacent to Kentucky Lake at Ash Area No. 1 at the JOF Plant. The following project improvements are planned for the Rock Buttressing project:

- Clearing and Grubbing – This includes removal of trees, brush, and other vegetation within the limits of construction and disposing of the waste material offsite.
- Fence Removal – This includes the removal of the existing security fence along the crest of the dike to facilitate construction of the rock buttress.
- Rock Buttressing – This includes installing a geomembrane, crushed stone, and riprap on the existing dike slope adjacent to Kentucky Lake.
- Dike Access Road – This includes placing soil fill to raise the elevation of the dike crest and constructing a new crushed stone access road.

- Fence Installation – This includes the installation of a chain link security fence along the dike crest to replace the existing fence removed to facilitate construction.
- Site Stabilization – Crushed stone or sod will be installed in all disturbed areas.

3. Pre-Construction Precautionary Measures

A preconstruction meeting will be held to review the Plans for Construction, Technical Specifications, Construction Quality Assurance Plan, Stormwater Pollution Prevention Plan and this Contingency Plan (along with other applicable TVA policies) before any construction commences. The intent of this meeting is to make sure everyone involved has a common understanding of the proposed construction and applicable safety and environmental practices that should be followed. The goal is to decrease the risk of accidents and lost work time. Prior to construction, proper inspection and maintenance of vehicles and equipment should also be performed. It is recommended that the JOF Shift Operation Supervisor (SOS) be notified of daily work activities. TVA safety protocols should be reviewed during the preconstruction meeting with specific emphasis on communication to all site workers of TVA's policy that any site worker has the authority to stop work in the event safety concerns are noted.

The physical locations of the buried utilities within the limits of construction should be surveyed and marked to ensure they are properly located prior to and during excavation. The locations of the buried conduits should be flagged throughout construction. These measures will decrease the risk of damaging and/or disrupting underground utilities at JOF. It is recommended that the JOF SOS be notified of excavation activities daily while working near and around the buried utilities. The SOS should also be notified daily upon completion of work.

4. Specific Project Concerns and Contingencies

The following sections address specific project concerns directly related to the Rock Buttrressing construction. Should an incident occur, the appropriate personnel should be contacted and appropriate actions performed to mitigate and correct the situation.

4.1. Fuel Oil Pipeline

Concern: A 14-inch above-ground steel fuel oil pipeline runs adjacent to the access road to the south of Ash Area No. 1 and north of the Coal Yard Runoff Pond. It is imperative that construction activities do not impact this pipeline.

Preventative Measures: The Contractor shall exercise caution when operating vehicles and equipment near the fuel oil pipeline. Oil absorbent booms or similar materials should be installed at selected locations to contain the liquid if a spill

occurs. Both TVA and the Contractor will ensure that materials and equipment necessary for spill cleanup are present on the site at all times. The Contractor shall become familiar with the JOF Integrated Pollution Prevention (IPP) Plan and the Integrated Contingency Plan (ICP) and shall retain copies of these documents onsite for reference.

The construction entrance should be checked each day for any signs of settlement or displacement that could lead to fuel oil pipeline damage.

Actions to Take: If settlement or displacement of the construction entrance is noted, traffic over the pipeline should be halted until the issue is characterized and resolved. If a spill occurs, it will be contained and cleaned up by following the procedures outlined in the IPP Plan and ICP.

4.2. Unsuitable Materials

Concern: Unsuitable materials (e.g. asbestos, PCBs, petroleum, hazardous or radioactive material) are uncovered or revealed at the site.

Preventative Measures: None.

Actions to Take: If unsuitable materials are encountered, the Contractor shall immediately stop all work in connection with such condition and notify TVA's Construction Manager.

4.3. Unstable Material Along Kentucky Lake Shoreline

Concern: Soft soils along the shoreline may not be capable of supporting construction equipment. Equipment may get stuck or overturn.

Preventative Measures: The Contractor should place riprap/aggregate to a sufficient depth in soft areas prior to running equipment over those areas.

Actions to Take: If equipment gets stuck or overturns, the Contractor should coordinate with the TVA Construction Manager to develop a plan to restore the equipment to a safe position.

5. Communication

This document provides guidance to the Contractor on immediate actions to be implemented upon observation of the events described herein. After initial contingency actions have been taken, the Contractor should contact the Stantec onsite construction technician for an immediate assessment and then contact the Construction Manager and a Stantec engineer. The names and phone numbers of the persons to be contacted are listed below in Table 1.

Table 1. Contact Information

Last Name	First Name	Title	Phone Number
Williams	Dana	TVA Construction Manager	423-763-8773
Puckett	Norman	Stantec Onsite Field Representative	502-262-5919
Bickel	Stephen	Stantec CQA Manager	502-558-0319
Tucker	Melissa	Stantec Project Manager	502-212-5048
Spalding	John	Stantec Engineer	502-212-5084