Tennessee Valley Authority
Regulatory Submittal for Kingston Fossil Plant

Documents submitted:
Non-Time- Critical Removal Action Gupton Farm Road Removal Work Package

Date Submitted:
11/24/2010

Submitted to whom
Craig Zeller, EPA

Concurrence

Received	Not Applicable	TVA
☐	☒	Steve McCracken
☒	☐	Kathryn Nash
☒	☐	Steve Cherry
☒	☐	Michelle Cagley MC

Received	Not Applicable	Jacobs
☒	☐	Jack Howard
☒	☐	Butch Parton
☒	☐	
☐	☐	
☐	☐	
☐	☐	

Approvals

TVA Kathryn Nash Date 11/24/10

EPA Craig Zeller Date 12/08/10

cc:

- ☒ Anda Ray, TVA
- ☒ Barbara Scott, TDEC
- ☒ Brenda Brickhouse, TVA
- ☒ John Dizer, TVA
- ☒ Craig Zeller, EPA
- ☒ Dennis Yankee, TVA
- ☒ Kathryn Nash, TVA
- ☒ Cynthia Anderson, TVA
- ☒ Steve McCracken, TVA
- ☒ EDM
- ☒ Julie Pfeffer, Jacobs
- ☒ Jack Howard, Jacobs
- ☒ Michelle Cagley, TVA
- ☒ Greg Signer, TVA
- ☒ KIF Incident Document Control
- ☒ Katie Kline, TVA
- ☒ Dannena Bowman, EPA
- ☒ Robert Pullen, Jacobs

Kingston Ash Recovery Project
Non-Time-Critical Removal Action
Gupton Farm Road Removal Work Package

Prepared by:
Jacobs

for the Tennessee Valley Authority

Revision	Description	Date
0	Issued for TVA Review	November 18, 2010

1.0 Purpose of Work

The purpose of this work plan is to remove the culverts and road stone from the old Gupton Farm driveway (previously installed by TVA) and to place the stone materials on a new road TVA has graded from Berkshire Road to the old Gupton house.

2.0 Design Components

Excavate the gravel materials from the Gupton driveway from near the beginning to the red barn. Place this material on the new one lane access road from Berkshire to the Gupton house. Remove existing culverts under Gupton driveway. Grade areas where culverts are removed to provide smooth flow channel. Place new dredge pipe culverts at required locations on new one lane access road. Provide additional crusher run material if needed to complete access road. Place gravel approximately 6" thick and compact with smooth drum roller. Install cattle gate at old entrance to Gupton property across removed driveway.

ARAP Requirements

- The activity may not result in the discharge of waste or other substances that may be harmful to humans or wildlife.

- Material may not be placed in a location or manner so as to impair surface water flow into or out of any wetland.

- Sediment shall be prevented from entering waters of the state. Erosion and sediment controls shall be designed according to the size and slope of disturbed or drainage areas to detain runoff and trap sediment and shall be properly selected, installed and maintained in accordance with the manufacturer's specification and good engineering practices.

- Erosion and sediment control measures shall be in place and functional before earth moving operations begin and shall be constructed and maintained throughout the construction period. Temporary measures may be removed at the beginning of the work day, but shall be replaced at the end of the work day.

- Appropriate measures shall be utilized where runoff is concentrated. Clean rock, log, sandbag, or straw bale checkdams shall be properly constructed to detain runoff and trap sediment. Checkdams or other erosion control devices are not to be constructed in stream. Clean rock can be of various type and size, depending on the application. Clean rock shall not contain fines, soils or other wastes or contaminants.

- Stream beds shall not be used as transportation routes for construction equipment.

- Removal of road crossings shall be done in the dry to the maximum extent practicable.

- Where the crossing is removed, the channel shall be returned to stable conditions which replicate the characteristics (dimension, shape, substrate, etc.) of the upstream and downstream conditions.

- Upon removal of a crossing, stream banks shall be stabilized. Materials used in bank stabilization shall include clean rock, riprap, anchored trees or other wastes as defined by T.C.A. 69-3-103(18).

- The excavation associated with the road crossing shall be kept to a minimum and shall be separated from flowing waters.

- Excavated materials, removed vegetation, construction debris and other wastes shall be removed to an upland location and properly stabilized or disposed of in such a manner as to prevent reentry into the waterway.

- Clearing, grubbing and other disturbances to the riparian vegetation shall be kept at the minimum necessary for slope construction and equipment operations. Unnecessary riparian vegetation removal, including trees is prohibited.

- Litter, construction debris, and construction chemicals exposed to storm water shall be picked up prior to anticipated storm events, or otherwise prevented from becoming a pollutant source for storm water discharges. After use, silt fences should be removed or otherwise prevented from becoming a pollutant source for storm water discharges.

- Stabilization measures shall be initiated with seven days after the construction activity has ceased. Permanent stabilization with perennial vegetation or other permanently stable, non-eroding surface shall replace any temporary measures as soon as practicable.

- Metal culvert pipe will be disposed of as scrap metal and transported offsite to a disposal facility.

3.0 Construction Management

The construction will be accomplished with track hoes, haul trucks, and dozers.

4.0 Schedule

The activity will begin as soon as approvals are obtained.

5.0 Waste Management

All waste generated by this activity (old pipe) will be handled per the approved Waste Management Plan.

6.0 Health and Safety

All construction activities will be done in accordance with the most recent version of the Site Wide Health and Safety Plan.