

Tennessee Valley Authority
Regulatory Submittal for Kingston Fossil Plant

Documents submitted:
Piezometer 09-400 Abandonment Work Plan

Date submitted
7/ 20/ 2009

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Piezometer 09-400 Abandonment Work Plan
KIP Ash Recovery Project
07-15-09

1.0 Purpose of Work

The objective of the Piezometer 09-400 Abandonment Work Plan is to detail the procedures for abandoning the Pneumatic Piezometer 09-400 located at the southwest corner of the failed Dredge Cell.

2.0 Design Components

The purpose for the installation of this piezometer was to ascertain the artesian pressure in the shale beneath the failed Dredge Cell. This information was needed as part of AECOM's Root Cause Analysis for failure of the cell. The piezometer was installed immediately after the December 22 event, but it is no longer taking accurate readings. AECOM proclaims its services are no longer needed and they have granted permission for its abandonment.

TVA Civil Projects Group (CPG) will be responsible for the abandonment of the piezometer. A small excavation around the piezometer will be needed to expose the steel casing below the ground surface. The steel cap on the top of the piezometer casing should be removed and saved for re-use. The steel piezometer casing as well as the two interior pneumatic hoses should then be cut below the ground surface and disposed of. The casing should then be covered with the saved cap and the excavation should then be backfilled with the native material in the working area, which is clean stone. No additional grouting or backfilling will be needed for abandonment as this piezometer is already set in grout.

Note: The casing should be cut to a depth sufficient enough so there are no trip hazards after backfilling (4 to 6 inches minimum).

3.0 Construction and Management

Because the piezometer is located adjacent to the failed Dredge Cell embankment, care will be taken not to disturb any unnecessary in-situ materials near the piezometer during abandonment activities. Only enough soil and rock to perform the task effectively will be removed. After cutting activities are complete, the area will be backfilled and dressed immediately. Compaction activities will not be necessary.

Although the working area is not in an area that contains ash, personnel involved with this activity must exit the Exclusion Zone (EZ) through the Contamination Reduction Zone (CRZ) and follow proper decontamination procedures.

4.0 Schedule

Work for the piezometer abandonment will commence the week of Monday July 20 and should last approximately 1 to 2 working days. Potential delays incurred by weather will not adversely affect abandonment activities and no schedule impact is anticipated.

5.0 Waste Management

During decommissioning and closure, the following steps will be used for the management of the waste generated on site. If any stone materials or soil in the working area becomes contaminated with ash, the ash along with a thin layer of material will be carefully removed with a shovel and placed back into the ash storage area in the Exclusion Zone for offsite disposal.

6.0 Health and Safety

All construction activities will be done in accordance with site-wide Health and Safety Plan. All personnel involved with the 09-400 abandonment will be 40-hr Hazardous Waste Operations trained.