

Tennessee Valley Authority
Regulatory Submittal for Kingston Fossil Plant

Documents submitted:
Skimmer Wall Debris Removal Work Plan

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Submitted to whom
Leo Francendese

Concurrence

Received Not Applicable

TVA

Mike Scott
Steve McCracken
Kathryn Nash *KAN*
Dennis Yankee *D & Y*
Michelle Cagley *MC*
Tom Spurlock *-via e-mail*
Tim Russ *TR*

Received Not Applicable Jacobs

Steve Richardson
Julie Pfeffer
Jack Howard

Approvals

TVA Michael T Scott

Date 2/25/10

EPA Leo Francendese

Date 2/25/10

Consulted w/ TDEC

cc:



Anda Ray, TVA



Barbara Scott, TDEC



Leo Francendese, EPA



Mike Scott, TVA



Dennis Yankee, TVA



Kathryn Nash, TVA



Cynthia Anderson, TVA



Steve McCracken, TVA



EDM



Julie Pfeffer, Jacobs



Steve Richardson, Jacobs



Michelle Cagley, TVA



Greg Signer, TVA



KIF Incident Document Control



Katie Kline, TVA



Dannena Bowman, EPA



Jeff Gary, Jacobs



Robert Pullen, Jacobs

SKIMMER WALL DEBRIS REMOVAL WORK PLAN

1.0 Purpose

In preparation for the construction of the new skimmer wall, the debris from the failed sections of the old skimmer wall that resulted from the ash spill is to be removed from the intake channel. The debris will include concrete beams and caissons, structural rebar, and possibly timber that washed downstream and caught up in the rubble. This work plan addresses the methodology planned for the removal of this debris.

2.0 Design

There is no design for the debris removal operations.

3.0 Construction/Operations

The plan for the removal of the submerged skimmer wall debris will be accomplished in two phases. The debris will be removed from an area of 100 feet from each side of the skimmer wall and along the width in the intake channel. This area will be cordoned off with turbidity curtains to control migration of ash outside of the area.

The first phase will be to mobilize a work barge equipped with a mechanical dredge to expose the skimmer wall debris by removing ash that settled and covered the debris. Ash covering the wall material will be mechanically dredged and placed on a material barge and taken to an appropriate processing/treatment location within the exclusion zone. This will include unloading the barge and loading haul trucks at either the north point or the skimmer wall dock landing, and hauling the material to the ball field for processing and disposal.

The second phase will consist of the recovery and removal of skimmer wall debris. Debris will be considered to be remnants of the skimmer wall 12 inches in size or greater. This will be accomplished through the mobilization of a work barge and crane for removing debris and placing on a barge for transport to an unloading area. A turbidity curtain will be installed around the recovery barge and work area to minimize migration of ash outside the work area. During decon activities; turbidity will be monitored outside of the turbidity curtains. If the turbidity outside of the curtain increases 2 times, the decon activities will be suspended and an additional turbidity curtain will be added. The unloading area will be located at either the south docking area south of the plant or an area near the bridge crossing the intake channel. Debris will be decontaminated and washed free of ash within the confinement of a turbidity curtain. Once decontaminated debris is offloaded, it will be temporarily stored in a clean area on TVA property until contractor can arrange for transport and disposal. Any debris that cannot be washed free of ash will be placed in a material barge and handled and disposed of similar other ash-contaminated debris.

4.0 Schedule

The schedule for this work is expected to take place beginning March 15, 2010. It is expected to be completed by May 01, 2010.

5.0 Waste Management

Waste management will greatly depend on the form in which the skimmer wall debris is recovered. Intact concrete beams of the skimmer wall can be decontaminated and washed free of ash while suspended over the edge of the barge to minimize the ash on the deck of the barge. All decon water will be allowed to flow directly into the intake channel within the confinement of the turbidity curtains. The barge deck where decontaminated debris is loaded will remain free of ash. Decontaminated debris will be transported to the south loading dock where it can be offloaded and staged in a clean area on TVA property until contractor arranges for transport and disposal. In the event a piece of debris cannot be washed free of ash, the debris and material will be placed on a different barge provided by the dredging contractor that is used for recovering dredged ash. This debris will be transported to either the north point or the skimmer wall dock landing to be offloaded and hauled to either the peninsula area noted on the attached map to be recycled or the ball field to be processed and disposed via rail to landfill.

Any personnel that may get ash on them during the debris removal and recovery process will be decontaminated prior to leaving the exclusion zone. All equipment exposed to ash during the debris removal and recovery process will be sufficiently cleaned prior to leaving the exclusion zone. All waste PPE (Personal Protective Equipment) will be collected and managed according to the site wide health and safety plan. A finalized plan detailing the decontamination methods will be submitted as an addendum once it has been received from the contractor.

6.0 Health and Safety

The activities in this work plan will follow the site-wide health and safety plan. Operations will be performed using TVA Diving Services following all TVA diving protocol. All personnel, vehicles, and equipment will be subject to decontamination requirements as listed in the site wide health and safety plan prior to leaving the site.

