

Tennessee Valley Authority
Regulatory Submittal for Kingston Fossil Plant

Documents submitted:

Storage of Mechanically Dredged Ash Storage Work Plan Rev. 2

Date Submitted:

04/09/2010

Submitted to whom

Leo Francendese

Concurrence

Received

Not Applicable

TVA

Mike Scott
Steve McCracken
Kathryn Nash
Dennis Yankee
Michelle Cagley
Steve Cherry
Tim Russ

Received

Not Applicable

Jacobs

Steve Richardson
Julie Pfeffer
Randy Denton
Jack Howard

Approvals

TVA

Kathryn Nash

Date

4/9/10

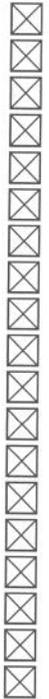
EPA

Leo Francendese

Date

4/9/10

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
- Gretchen Wahl, Jacobs
- Dannena Bowman, EPA
- Jeff Gary, Jacobs
- Robert Pullen, Jacobs

Storage of Mechanically Dredged Ash Work Plan

1.0 Purpose

Mechanical removal of ash is planned for the segment above above Segment 5 and in support of the skimmer wall debris removal activity. Information about mechanical dredging is found in the dredge plan and the dredge plan addendum while information about the ash removal associated with the skimmer wall debris removal is found in that work plan. This work plan addresses the storage of removed ash. The plan is to truck the wet ash to a storage location where either the ash can be retrieved in the future or may be permanently disposed there.

2.0 Design

No design is needed for this activity. Stantec has concurred with this work plan (see attached).

3.0 Construction

Ash that is mechanically removed from the river would be offloaded from barges onto articulating trucks at the north point or Severson's south dock. Trucks would then transport the wet ash to the lateral expansion area northern berm. The ash would be dumped from the trucks into the lateral expansion area starting at the western portion. The ash would be placed between the interim berm and the ditch constructed for the platform ash recovery operation. Using dozers and trackhoes (or amphibious trackhoes), the ash would be pushed in the area. The total height would not exceed five feet above grade (maximum elevation of 768.0) and slopes would be at a 6:1 or flatter. If the ash is not stackable, ash from the area may be excavated and stacked as indicated and the new ash pushed into the excavated areas. No ash will be stored on the berm. Amphibious trackhoes used to excavate ash would stay 15 ft from the excavation and excavate at a 2:1 slope, no deeper than 6 feet.

Care would be taken to not stray into the thin bottom ash area on the northern portion of the berm that is behind the dredge pipe. The presence of the pipe will prevent access to this area by trucks or heavy equipment. The dredge pipe delineates a conservative boundary of the thinner portion of ash. This will be confirmed during site preparation and if additional barriers are needed, they will be added. The trucking and dumping would continue around the clock, as needed.

Truck and barge counts and a final survey would be used to estimate the volume of ash placed. Although there are no near term plans to remove the ash, the volume would be available in case in the future a decision was made to retrieve this ash, or an equivalent amount.

Should a problem develop in the future with using this disposal location, the mechanically removed ash will be taken to the sluice trench area for drying and possibly treatment with lime (under a separate approved work plan).

4.0 Schedule

This work will begin once mechanical dredging begins, approximate April 12. The work is anticipated to take 3-4 weeks.

5.0 Waste Management

Ash disposal is the subject of this work plan. Ash removed from the river mechanically will be disposed in the ash pond near the Dike C/D intersection. Alternatively, it may be taken to the sluice trench for treatment.

6.0 Health and Safety

The site-wide safety and health plan will be followed. Particular care will be placed on working around water in the ash pond. The water is not deep but the subsurface under the water may be soft.

McDermott, Mary F

From: Pfeffer, Julie
Sent: Wednesday, April 07, 2010 3:33 PM
To: McDermott, Mary F
Subject: FW: mechanical dredging storage.doc

From: Denton, Randy
Sent: Wednesday, April 07, 2010 3:30 PM
To: Pfeffer, Julie
Cc: Howard, Jack L.; Lewis, Bob
Subject: FW: mechanical dredging storage.doc

From: Fuller, Don [mailto:Don.Fuller@stantec.com]
Sent: Wednesday, April 07, 2010 3:29 PM
To: Denton, Randy
Cc: Howard, Jack L; Pfeffer, Julie
Subject: RE: mechanical dredging storage.doc

Approved.
Thanks.

Don Fuller II, PE
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From: Denton, Randy [mailto:rdenton@tva.gov]
Sent: Wednesday, April 07, 2010 1:23 PM
To: Fuller, Don
Cc: Howard, Jack L; Pfeffer, Julie
Subject: FW: mechanical dredging storage.doc

Hi Donnie, this appears to address the comments.
Awaiting your concurrence.

Thanks, Randy
