

Tennessee Valley Authority
Regulatory Submittal for Kingston Fossil Plant

Documents submitted:
Settling Area Outlet Work Plan

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Submitted to whom
Leo Francendese, EPA

Concurrence

Received Not Applicable TVA

Anda Ray
Mike Scott
Kathryn Copeland
Cynthia Anderson
Dennis Yankee
David Stephenson

Received Not Applicable Jacobs

John Moebes
Julie Pfeffer
Jack Howard
Donna Cueroni
Paul Clay

Approvals

TVA Michael J. Scott Date 6-9-09

EPA Leo Francendese Date 6.9.09.

Consulted by TDEC. Bart Scott.

cc:

- Anda Ray, TVA
- Barbara Scott, TDEC
- Leo Francendese, EPA
- Mike Scott, TVA
- Dennis Yankee, TVA
- Kathryn Copeland, TVA
- Cynthia Anderson, TVA
- John Moebes, Jacobs
- EDM
- Julie Pfeffer, Jacobs
- David Stephenson, TVA
- Michelle Cagley, TVA
- Greg Signer, TVA
- KIF Incident Document Control
- Katie Kline, TVA
- Gretchen Wahl, Jacobs
- Barbara Scott, TDEC
- Dannena Bowman, EPA

Settling Area Outlet Work Plan

1.0 Purpose of Work

The objective of this work plan is to improve the functionality of the settling areas by relocating the skimmers from Settling Area 1A to Settling Area 2A thus eliminating normal, every day discharge through the ash east of Dike 2.

2.0 Design Components

The purpose of the effort from this work plan is to remove the skimmers from the standpipes in Settling Area 1A and to install them on the standpipes of Settling Area 2A. The holes in the standpipes of Settling Area 1A will be blocked by fastening a plate on the standpipe.

The reconfiguration of the standpipes would eliminate the opportunity of ash flowing into the settling area from east of Dike 2. This would also serve to convert two settling areas into one large settling area. The dike between the settling areas would be left in place with an overflow spillway between them. The standpipes would remain in Settling Area 1A to alleviate concern for over-topping of the dike. This would ensure all discharges from the settling areas are through clean ditches and not through ash east of Dike 2. Settling Area 2A bottom elevation is approximately 1 foot higher than 1A and the standpipe elevation in 2A is approximately ½ foot higher than in 1A. Therefore the one large settling area would function the same as the 2 smaller settling areas without discharging through ash or overtopping of the dike. The Interim Drainage Drawing will be revised to reflect this change. The Storm Water Pollution Prevention Plan (SWPPP) will be revised to reflect this change.

A monitoring plan that assesses the flow of water and concentration of metals and total suspended solids exiting the Embayment area will be developed and submitted for approval under a separate plan. Initially, this plan will indicate monitoring at locations not associated with the settling basins since they are not yet operational. Once the basins become operation, the plan will indicate that the monitoring locations will be moved to best represent the flow conditions entering the river from the Embayment area. The monitoring plan will present the sampling locations as well as the analytes and sampling frequency.

3.0 Construction Management

The construction will be accomplished while the settling areas are dry and before the completions of the clean water ditches. After completion of the clean water ditches the temporary pipes through Dike 2 will be plugged.

4.0 Schedule

The schedule of the construction would be accomplished prior to July 10th when the “clean” water ditch is completed. Because dry conditions are required, no exact date is given.

5.0 Waste Management

The only waste anticipated to be generated by this construction is 2 small pieces of clean corrugated metal. This metal would be handled as normal construction debris.

6.0 Health and Safety

All construction activities will be done in accordance with site-wide Health and Safety Plan.