

Tennessee Valley Authority
Regulatory Submittal for Kingston Fossil Plant

Documents submitted:
Central Area Re-contouring Work Plan, Revision 4

Date Submitted:
04/12/2010

Submitted to whom
Leo Francendese

Concurrence

Received Not Applicable

TVA

Mike Scott
Steve McCracken
Kathryn Nash
Dennis Yankee *DNY*
Michelle Cagley *mel*
Steve Cherry *SC*

Received Not Applicable

Jacobs

Steve Richardson
Julie Pfeffer

Approvals

TVA Kathryn Nash Date 4/12/10

EPA Leo Francendese Date 4/12/10

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

Central Area Re-contouring Work Plan, Revision 4

1.0 Purpose of Work

This work plan is to re-contour the central area of the old dredge cell to build a subgrade in anticipation of constructing the working platform, to improve drainage and to stabilize the dredge cell against erosion (see attached sketch for details). This work is to support Time Critical ash storage activities.

2.0 Design Components

The re-contouring of the central area will be accomplished by hauling unsaturated sand and ash from the ballfield area (29 % moisture content or less) to fill the existing surface ditch system within this area. The material will be placed in nominal 1' lifts and tracked in by the equipment. This raising of the ditch system will require the rerouting of surface drainage from the west side of the relic around the central area.

The re-contouring of the central area will be accomplished in two phases. Phase 2 will only be installed if needed as additional temporary storage.

Phase 1 of the re-contouring will raise the elevation of the ditch at the East West Haul Road to approximately 749.0 and will be sloped to the south at an approximate 1 % slope. This will require approximately 35000 CY of material.

Phase 2 of the re-contouring will raise the elevation of the ditch at the East West Haul Road to approximately 752.0 and will be sloped to the south at an approximate 0.6 % slope. This will require an additional 20000 CY of material.

The re-contouring will tie into the Test Embankment at elevation 758.0. The 758.0 elevation of the Test Embankment is roughly the bottom of the Test Embankment and should have no influence on the Test Embankment results.

The surface drainage from this area would still flow from south to north and be discharged through the East West Haul Road by means of a 48" pipe and then be carried to the existing Settling Areas prior to discharge to the Emory River.

3.0 Construction Management

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

4.0 Schedule

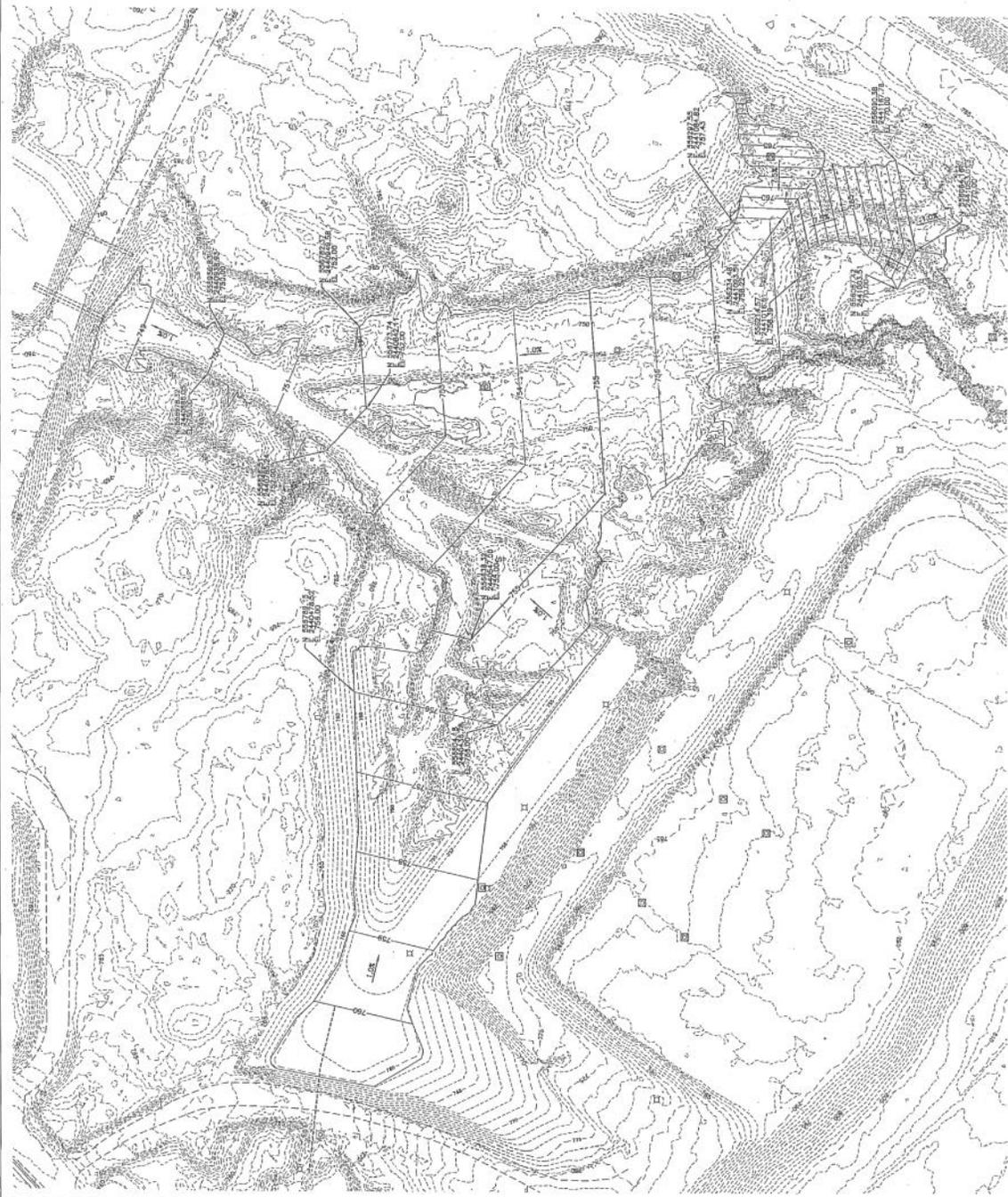
The activity would begin after this work plan has been approved and continue until the area has been re-contoured.

5.0 Waste Management

No waste will be generated by this work.

6.0 Health and Safety

All construction activities will be done in accordance with the site-wide Health and Safety Plan. The material will be placed, as much as possible, by pushing the material in front of the equipment, thus minimizing equipment and personnel in the gullies.



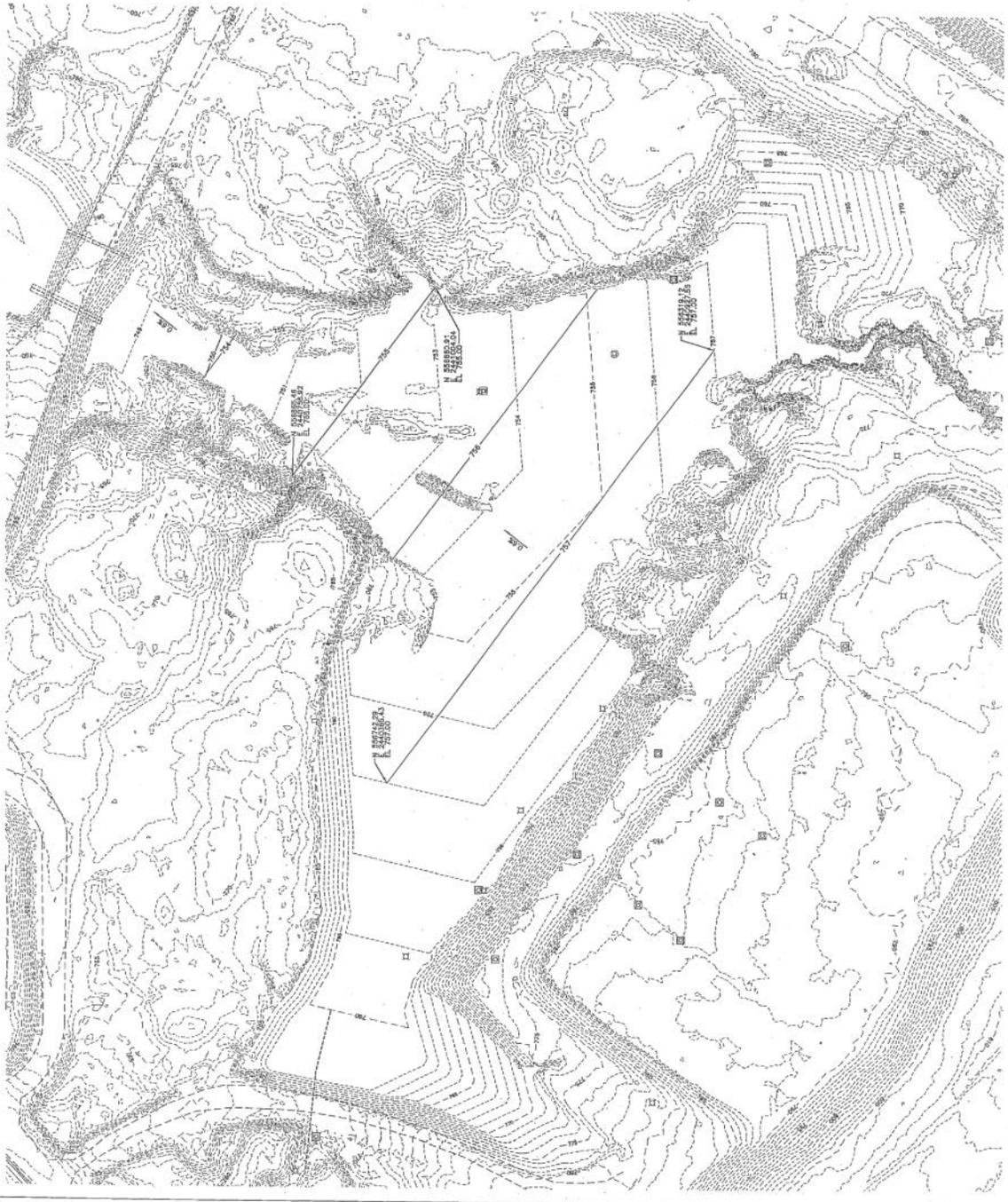
SEAL

JACOBS
 KANSAS POWER PLANT
 TENNESSEE VALLEY AUTHORITY
 CENTRAL STORAGE CELL
 ASH STORAGE
 PHASE 1

DATE SHOWN: 04/05/03
 DRAWN BY: JAC

NO.	DATE	DESCRIPTION
1	2/27/03	DESIGNED FOR INFORMATION
2	04/05/03	REVISED

PLAN
 SCALE: 1"=40'



JACOBS
 KINGSTON FOSSEL PLANT
 TENNESSEE VALLEY AUTHORITY
 CENTRAL DREDGE CELL
 ASH STORAGE CELL
 PHASE 2
 SHEET NO. 51-C-03A

DATE	2/24/10	ISSUED FOR CONSTRUCTION
BY	JAC	
CHECKED		
APPROVED		

PLAN
 SCALE 1"=100'

Parton, Franklin M Jr

From: Steele, Mike (Lexington) [Mike.Steele@stantec.com]
Sent: Friday, February 26, 2010 3:54 PM
To: Parton, Franklin M Jr
Cc: Howard, Jack L; Fuller, Don; Herron, Darrell; Lindquist, Kyle; Wu, Yong
Subject: RE: Central Area Re-contouring Work Plan

Yes.

Michael J. Steele, PE
Associate
Stantec Consulting Services Inc.
1409 North Forbes Road
Lexington KY 40511-2050
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From: Parton, Franklin M Jr [mailto:fmparton@tva.gov]
Sent: Friday, February 26, 2010 3:22 PM
To: Steele, Mike (Lexington)
Cc: Howard, Jack L; Fuller, Don; Herron, Darrell; Lindquist, Kyle; Wu, Yong
Subject: RE: Central Area Re-contouring Work Plan

Mike,

Does this mean you concur with the Central Area Re-contouring Work Plan?

Butch

From: Steele, Mike (Lexington) [mailto:Mike.Steele@stantec.com]
Sent: Friday, February 26, 2010 1:34 PM
To: Parton, Franklin M Jr
Cc: Howard, Jack L; Fuller, Don; Herron, Darrell; Lindquist, Kyle; Wu, Yong
Subject: RE: Central Area Re-contouring Work Plan

Butch:

Stantec compared the attached work plan with the current version of our DRAFT subgrade design and it appears that the proposed grading is generally below target working platform elevations. It is noted that the FINAL subgrade design will likely require some degree of cut across proposed fill areas to achieve the desired template. It is recommended that TVA safety professionals evaluate both working conditions at the site and the proposed construction methodology in order to develop appropriate protocols to meet stated objectives outlined in Section 6 of the work plan.

Michael J. Steele, PE
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From: Parton, Franklin M Jr [mailto:fmuparton@tva.gov]
Sent: Wednesday, February 24, 2010 11:11 AM
To: Steele, Mike (Lexington)
Cc: Howard, Jack L
Subject: Central Area Re-contouring Work Plan

Mike,

Please review the attached work plan and provide your concurrence.

Thanks,

Butch

<<Central Area Recontouring Work Plan.pdf>>