

UNITED STATES GOVERNMENT

Memorandum

TENNESSEE VALLEY AUTHORITY

ENGINEERING DESIGN DIRECTOR'S OFFICE		
Note		Noted
✓	Dunham	
	Lacy	
	Sprouse	
✓	Wetzer	10/10
✓	Burroughs	
✓	Master File	

TO : Division of Power Production Files, 817 EB-C

FROM : Meigs Brewer, Jr., Mechanical Engineer, 617 EB-C

DATE : September 25, 1973

SUBJECT: JOHNSONVILLE STEAM PLANT - ASH DISPOSAL PONDS A AND B

A meeting between representatives of TVA and E. I. DuPont DeNemours and Company was held at the Johnsonville Steam Plant on September 7, 1973, with the following present.

TVA

Division of Engineering Design

Division of Power Production

R. J. Bowman
 Jerry L. Glover
 O. H. Raine

J. G. Beasley
 Meigs Brewer
 J. E. Tracy
 C. J. Turner

DuPont

O. L. Brannen
 J. W. Franklin
 John C. Tidwell

The purpose of the meeting was to discuss plans for terminating TVA's filling rights in the ponds and preparing them for release to DuPont, owner of the land on which the ponds are located. By special warranty deed dated April 1, 1952, TVA sold to DuPont tract XGIR-580 on Kentucky Reservoir, retaining the right to dike and fill portions of the tract with ash from the Johnsonville Steam Plant. These rights were to extend for a period of 15 years; however, under terms of later agreements, TVA's filling rights were extended until July 31, 1986.

The ponds are now virtually filled to prescribed elevations contained in the agreements, and all ash is being sluiced to a new pond on the west side of the plant. It is a mutual benefit to return the land to DuPont. However, certain work is necessary to make the ponds safe from dike failure or other occurrences which could result in stream or air pollution.

is it more that we don't want to raise it. Has any fig. been...

agreement said to 8.354 present top of dike 3812

RECEIVED OCT 11 1973			
CIVIL DESIGN BRANCH			
HWY & RR SECTION			
Note	Handle		Noted
		Lacy	
✓		Stansberry	
✓		Bowman	
		Fox	
		Herald	
		Logan	
✓		Nelson	
✓		Hachmann	✓



WORKING PAPERS

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Division of Power Production Files
September 25, 1973

JOHNSONVILLE STEAM PLANT - ASH DISPOSAL PONDS A AND B

Several meetings between TVA and DuPont have been held to discuss the preparation of the ponds for abandonment. Efforts in this respect were temporarily halted while DuPont constructed a dock for unloading chlorine barges at the north end of Pond B. Extensive dredging was required for a channel to the dock, and it was agreed to discharge the dredged material into Pond B. Approximately 80,000 cubic yards of dirt were dredged into the pond. This material will be used to cover exposed dikes and pond surfaces where seeding is to be done.

It was agreed in the meeting that the following work will be done before turning the land back to DuPont.

Pond A

1. The outside of the dike will be reshaped to have a slope of about 2.5:1, covered with earth and seeded.
2. The portion of the pond surface lying on DuPont land (the property line traverses this pond from east to west) will be covered with coarse ash to prevent dusting from wind. The part of the pond on TVA land will be covered with earth and seeded.
3. A 36-inch drain pipe will be placed through the dike at about elevation 370.0 to lower the water table within the pond. The drain will be installed by DuPont at their expense.
4. Drainage of DuPont's ash sluice water will be rerouted to remove it from TVA property.

Pond B

1. The outside of the dike will be reshaped to have a slope of about 2.5:1, covered with earth and seeded.
2. A drainage ditch will be dug on the inside and parallel to the west dike of the pond. The sides of the ditch will be on a slope of about 4:1. The slopes will be covered with earth and seeded.

5. drainage ditch along inside of dike for pond A was also agreed to.

6. Additional pipe (Sta 10100) to be purchased & installed by TVA.

or flatter

or flatter

by DuPont

no 2.5:1

Ponds A & B

Top of dike is to be at el 381 except in vicinity of DuPonts Pumping Sta.

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JOHNSONVILLE STEAM PLANT - ASH DISPOSAL PONDS A AND B

*as overgrown by the creek and
rebuilt the dike. D.P. is to be put
at base of excavation to determine which
will be done.*

3. Drain pipes will be installed through the dike to drain the water from the parallel ditch. These drains will be made of 36-inch corrugated metal asphalt-coated pipe and will be installed by DuPont at their expense. They will be spaced at about 1,000-foot intervals. The invert of the drain inlets will be at elevation 370.0. DuPont will also dig cross ditches through Pond B to lower the water table in the pond.
4. The toe of the north dike of Pond B will be cut back to provide 10 feet between it and the buried 36-inch wood flume belonging to DuPont. This will substantially reduce or destroy the strength of the dike; however, since the water will be removed from the pond, it was agreed that we could cut the dike back and build up on the inside with earth to restore it to about its original strength. DuPont wants the 10-foot clear area to permit maintenance of the flume as well as to furnish additional insurance against a flume failure.
5. DuPont will construct a longitudinal dike near the center of the pond to confine the seepage from the sludge that they dump to the northeast corner of Pond B and route it to Pond C via the south spillway connecting the two ponds. The north spillway will be deactivated.

*only if DuPont determines
that cross ditches are required
Don't believe anything defined
was agreed to.*

Pond C

No work is to be done on Pond C.

Trees will be planted along the toe of the dike of both Ponds A and B by TVA. The grading work will be done by the construction forces installing the precipitators. Completion of the work outlined in the foregoing should provide adequate protection against accidents or dike failures which would result in a release of ash to the river and against ash being carried away by wind currents.

A formal agreement will be prepared at a later date to set out the understandings and terms under which the land is to be returned to DuPont.

Meigs Brewer, Jr.
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MB:FEB
CC: (See page 4)

Division of Power Production Files
September 25, 1973

JOHNSONVILLE STEAM PLANT - ASH DISPOSAL PONDS A AND B

CC: Roy H. Dunham, 506 UB-K
✓ R. G. Domer, 402 UB-K
Joseph Greco, 705 EB-C
E. L. Sanderlin, Johnsonville
Clem C. Schonhoff, 710 EB-C

10-10-73--DBW:PKM

CC: W. W. Engle, 401 UB-K (2)
B. S. Montgomery, 401 AB-K
XC: R. G. Domer, 104 UB-K