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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE .. /401

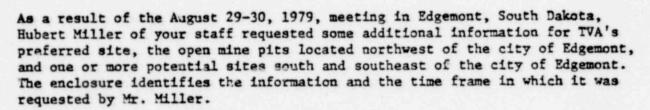
400 Chestnut Street Tower II

September 17, 1979

Mr. Jack Martin Division of Waste Management U.S. Nuclear Regulatory Commission Washington, DC 20555

Docket No. 40-1341

Dear Mr. Martin:



At present, there are no foreseeable problems in providing information identified in the enclosure by the requested time, with the exception of items III.B, III.C, and III.D. As discussed with Gene Trager of your staff, the ability to adhere to the schedule for these items depends upon when NRC identifies one or more potential sites south and southeast of the city of Edgemont. As suggested by Mr. Trager, TVA will evaluate site 10 (see the Ford, Bacon & Davis Utah, Inc., report entitled "Engineering Assessment of Inactive Uranium Mill Tailings, Edge at Site, Edgemont, South Dakota," May 1978), which is located approximately 5.5 miles south of the existing mill site along Route 52, as a candidate. If other possible site(s) in this area are identified by your staff for evaluation, we understand that your staff will notify us by the week of September 17, 1979.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager

Nuclear Regulation and Safety

1109 351

Enclosure

FEE EXEMPT W 04010050 7940050

An Equal Opportunity Employer

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September 17, 1979

cc: ARMS, 640 CST2-C

E. A. Belvin, ROB-M

B. J. Bond, 200A LB-K

Charles Bonine, Jr., E7B27 C-K

B. W. Brown, Jr., 259 401B-C

J. P. Darling, 403 PRB-C

P. W. Hyatt, 143 EB-K

E. H. Lesesne, 448 EB-K

R. L. Morgan, FOR B-N

H. G. Moore, Jr., 268 401B-C

T. H. Ripley, FOR B-N

H. S. Sanger, Jr., EllB33 C-K

ENCLOSURE

ADDITIONAL INFORMATION REQUESTED BY NRC

I. TVA's Preferred Site

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Additional Information Requested

Time Frame Requested

October 1-15, 1979

- A. Broad impact, cost, and feasibility information of this site. This should include information on several of the viable transportation options, e.g. pipeline slurry, trucking (including offroad), and combination of these. This is to include:
 - 1. number of trips.
 - 2. length of travel, and
 - 3. duration of disposal.

- October 1-15, 1979
- B. The potential capacity of this site accounting for the desirability of excavating at this site to eliminate the need for or to reduce to the maximum extent practicable the size of the embankments, for the need to provide a final cover of at least 3 meters, and for the need to return the current site fill material to replace contaminated volume removed.
- C. Information needed to evaluate the potential for ground water contamination including:
- November 30, 1979
- Description of stratigraphy below site.
- Location of ground water formations.
- 3. Properties of stratigraphic units as they relate to ground water or seepage movement, e.g., permeabilities, degree of fracturing or discontinuities such as sand dikes which could provide channels for spread of contamination.

Additional Information Requested

Time Frame Requested

- 4. Strength and other engineering properties of foundation materials.
- D. Details of design of impoundment (not necessary to have level of detail required for construction) including:

November 30, 1979

- 1. Acreage of impoundment
- 2. Shape of impoundment
- 3. Depth of excavation
- 4. Thickness of liners
 5. Properties of liner material

II. Open Pit Mines (site 8)

A. Same information as requested in A above for TVA's preferred site (I) except the combination with pipeline slurry transportation need not be evaluated.

Same as I A above

B. Same information as requested in B above for Same as I B above TVA's preferred site (I)

C. Aerial photographs of the open pit mines.

Transmitted to NRC by letter dated September 11, 1979.

III. Sites South and Southeast of Edgemont

A. Aerial photographs of the area south and southeast of Edgemont.

Transmitted to NRC by letter dated September 11, 1979

B. Followup brief on ground characterization of one or several potential disposal sites in the south/southeast sector including the following:

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October 1, 1979

Additional Information Requested

Time Frame Requested

- Land survey to characterize topography, drainage patterns, etc.
- Characterize surface geology (walk through of site to identify and locate outcroppings present).
- C. Same information as requested in A above for TVA's preferred site (I).

Same as I A above

D. Same information as requested in B above for TVA's preferred site (I). Same as I A above