

Request for Compliance
 copy by Mail to tele. #
 4/4/78

number ten tantalum place muskogee, oklahoma 74401

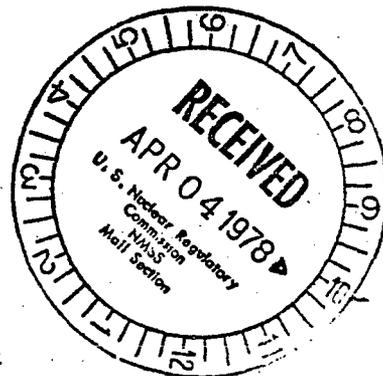
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March 31, 1978

Nuclear Regulatory Commission
 Washington, D.C. 20555

Attention: Mr. Earl G. Wright
 Radioisotopes Licensing Branch
 Division of Fuel Cycle and
 Material Safety

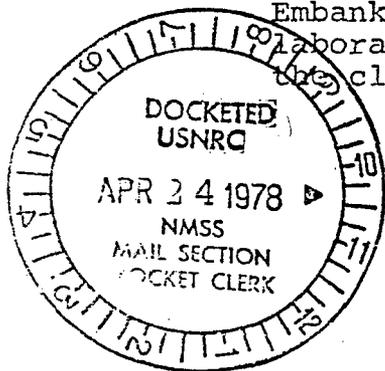


Gentlemen:

Enclosed for your consideration are the plans for the design and construction of the new Waste Residue Retention Pond No. 3. The package includes:

- (a) Engineering Report by Hemphill - Part I
- (b) Engineering Report by Hemphill - Part II
- (c) Map of the area
- (d) Map of the plant site showing the superimposed drawing of Pond 3 over the old Pond 3 and old Pond 4.
- (e) Topographical map of the pond after its completion.
- (f) Two drawings of the liner layout showing vent system and French drain detail.

The two Hemphill reports answer the two questionnaires left with us by the NRC Representatives during their visit to Muskogee on October 6, 1977. In effect, these questionnaires pertain to the consideration of Regulatory Guide 3.11 "Design, Construction, and Inspection of Embankment Retention Systems". The boring data and the laboratory test data are given for the pond area and for the clay to be used in the construction. The reports give



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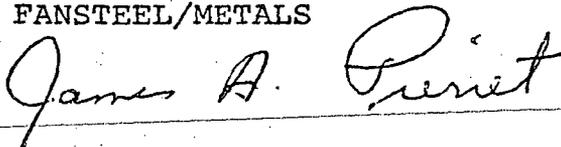
a proposed design for the pond that has four dikes, each with impervious clay core that is located directly on bedrock. After construction, the pond will be lined with Shelterite XR-5 or equivalent, in a similar manner to Pond 8 that was completed in March of 1977.

We are currently reviewing this plan. If you have any questions, please let us know. We plan to begin the construction on or about May 1 (at a time when the weather is proper for pond construction and for the liner installation) in order that we can adequately provide the additional on-site storage for waste material.

An Engineering firm such as Hemphill Corporation will be employed for full-time qualified field inspection, supported by laboratory testing during the construction of the pond, to assure proper foundation preparation and compaction of embankment materials. The test reports will be furnished to NRC.

Sincerely,

FANSTEEL/METALS



JAMES A. PIERRET
Manager - Muskogee Plant

JAP:sf
Enclosures

cc: J. Duggan
C. L. Brown