

FCLM:EGW  
(09170)

APR. 5 1979

Fansteel, Inc.  
ATTN: Mr. James A. Pierret  
Plant Manager  
Number One Tantalum Place  
North Chicago, IL 60064

Gentlemen:

This is to acknowledge receipt of your letter of February 2, 1979, which provides information in response to our letter of December 5, 1978 and your letter of March 23, 1978, which provides information requested by Owen Thompson in his call with Mr. James Pierret on March 13, 1979. This also refers to the telephone conversation between Mr. James Pierret and Mr. Earl Wright of NRC on March 29, 1979.

As discussed with Mr. Pierret in the above referenced telephone calls, we have reviewed the information provided by you and have the following comments or questions:

1. Hydrology Consideration. We will consider your proposal for a 40" freeboard in lieu of our stated requirement of 30", provided that you ensure protection of the embankment during a rainfall series in excess of the freeboard. This can be done, for example, by constructing a spillway and overflow channel below the top of the embankment. A riprapped channel down the side of the embankment, properly sized and graded for the maximum flow expected will be required. You should provide details of your method for complying with this requirement.
2. Radiological and Environmental Considerations:
  - A. Specify the expected quantity of source material to be placed in the pond on an annual basis (what quantity will be in solids and what quantity in the supernatant?). Specify the method and equipment used for collection, preparation and analysis of samples.
  - B. Provide a description of the procedures and equipment for collection, preparation and analysis of liquid samples taken from your effluents to the Arkansas River.
  - C. Describe your methods for verification of sample results. For example, do you have duplicate samples prepared and analyzed by an independent laboratory?

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A-18

Please provide two copies of the requested information and refer to Control No. 09170.

Sincerely,

Nathan Bassin  
License Management Branch  
Division of Fuel Cycle and  
Material Safety

cc: Lyman Heller,  
Geoscience Br. (for  
Owen Thompson)  
LShulman,  
Hydrology and Meteorology  
(for M. Fliegel)

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