

**Fansteel**  
**Metals**

number ten tantalum place muskogee, oklahoma 74401

40-7580

October 3, 1978

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U.S. NUCLEAR REG.  
DIVISION  
NMSR SECTION

United States  
Nuclear Regulatory Commission  
Washington, D. C. 20555

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

Re: License No. SMB-911  
Control No. 09170  
J. A. Pierret Letter of 9-22-78

Gentlemen:

This letter transmits the final part of the revised report concerning the construction of the new Waste Retention Pond No. 3 at Fansteel, Inc., Muskogee, Oklahoma. Answers to the Hydrologic Engineering questions are transmitted. In addition, a more complete answer to Item 362.27 of the Geotechnical Engineering question is attached. Three copies of each item are enclosed.

The delay is related to difficulty in getting data from the Corps of Engineers to help resolve the flood problem.

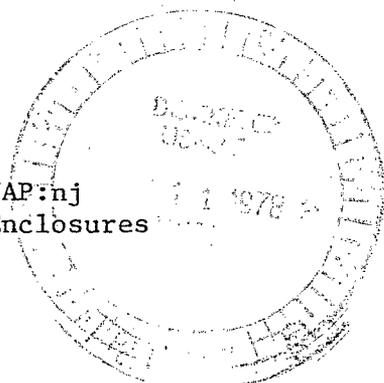
Our weather continues to be dry and the French drain construction is nearly finished. Some sand was encountered on the Northwest corner, but the sand problem was a very small one on the Southwest area although the depth of excavation was the greatest. Throughout the project the drain pipe is very close to the shale surface. There has been some drop-off in rate of the water leaving the drain pipe.

Very truly yours,

*James A. Pierret*

JAMES A. PIERRET  
Plant Manager

JAP:nj  
Enclosures



**FEE EXEMPT**

*info only*

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ITEM 362.27 Provide Estimates For Quantities, of Each Type of Borrow Material Available and Estimates of Quantities of Each Type of Fill Material Required.

Based on cross-sections through the basin, a total of about 22,288 yds.<sup>3</sup> will be required as fill soil for the construction of the dikes.

Soil excavated from the basin that is suitable as fill soil for reuse in constructing the dikes amounts to about 10,860 yd.<sup>3</sup>

Suitable fill from the proposed borrow area southwest of the basin amounts to about 14,074 yd.<sup>3</sup>

Excavation fill	10,860
Borrow area fill	14,074
Total fill available	<u>24,934</u>
Dike requirement	<u>22,288</u>
Reserve fill	2,646

There will be additional fill obtained when the west and north drainage ditches are constructed.

Waste fill will be used for landscape grading external to the dike system.