

NOV 1 1978

MEMORANDUM FOR: Bernard Singer, Chief
Radioisotopes Licensing Branch, NMSS

FROM: L. W. Haller, Section Leader
Geotechnical Engineering Section
Geosciences Branch, DSE

SUBJECT: WASTE RETENTION POND, FANSTEEL METALS
ACCEPTANCE OF DESIGN AND REQUIREMENTS
FOR CONSTRUCTION

PLANT NAME: Fansteel Metals, Muskogee, Oklahoma
DOCKET NUMBER: 40-7580
TAC NUMBER: 4655, R-53
RESPONSIBLE BRANCH: Radioisotopes Licensing Branch
E. Wright, LPM

We have reviewed additional information dated October 3, 1978 from Fansteel to NRC in support of a license amendment for a waste retention pond. The information provided by the applicant is adequate for us to accept the proposed construction details.

In order for us to prepare a Safety Evaluation Report when the project is completed, we need a prompt commitment from the applicant to provide the following details during construction:

1. A report from the Soils Engineer documenting inspection, testing and approval of all earthwork. The report should include summaries of compaction tests, material identification tests, and evidence for subgrade approval of exposed materials prior to fill construction. The reports on subgrade approval should indicate either that all existing fill was undercut from embankment areas or that existing fill left in place was adequately investigated (by test borings or test pits) and found to be acceptable with respect to the design assumptions.
2. A report giving revised details or amendments to the details already provided which document the as-built conditions, including details of the perimeter tile drain system and the gradation of the granular filter over the tile drain.

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3. A report of the flow rate from the tile drain system at significant times (at least monthly) until the construction is completed. This report is to be provided to NRC with the as-built conditions report.

This review has been made by O. Thompson, Geotechnical Engineering Section, GB, DSE.

Original Signed by L. W. Heller
L. W. Heller, Section Leader
Geotechnical Engineering Section
Geosciences Branch, DSE

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