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UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555 DCS-PDR 40-8728

DEC 1 9 1979

MEMORANDUM FOR:	Hubert J. Miller, Section Leader Uranium Recovery Licensing Branch
THRU:	John J. Linehan, Section Leader Uranium Recovery Licensing Branch
FROM:	Daniel M. Gillen Uranium Recovery Licensing Branch

SUBJECT: EVAPORATION POND EMBANKMENTS AT TETON-NEDCO LEUENBERGER SITE

Based on the information presented in Section III 4.3 and on Figures III 5.3.01 a and b of the application and environmental report for the TETON-NEDCO Levenberger site, I recommend that the following license condition be included in the TETON-NEDCO license.

The level of effluent wastes in the solar evaporation ponds, as shown on Figures III 5.3.01 a and b of the application and environmental report, July 30, 1979, shall not exceed elevation 5202 until the licensee has submitted additional embankment information for NRC review and received written approval. The additional embankment design and construction information shall include but not be limited to the following:

- a) Hydrologic Analyses Include discussion of procedures used in the determination of the minimum freeboard and slope protection requirements.
- b) Foundation Conditions Include the results of subsurface investigations and laboratory testing used to determine the embankment foundation properties. Discuss embankment foundation shear strength, permeability, and consolidation properties and possible effects of the effluent on embankment foundation materials.
- c) Embankment Construction Include a description of construction equipment and procedures and a comparison of design placement requirements with a summary of field control test results (field consity and moisture control). The summary shall include the embankment location of tested samples. Also, describe unexpected conditions or problems in construction and any significant changes from design concepts.

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 d) Liner System - Discuss the reasons why a protective soil cover is not included in the liner design.

It should be noted that no slope stability analysis has been submitted. However, based on the conservativeness of the embankment design, none will be required ascuming 1) the embankment has been constructed as presented in the environmental report, 2) no undesirable foundation conditions are reported, and 3) the homogeneous embankment does not develop seepage with the presence of the liner system.

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Daniel M. Gillen Uranium Recovery Licensing Branch Division of Waste Management

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