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*file in
Broyback*

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March 24, 1978

COPY

Mr. Lee McCloskey
American Electric Power
P.O. Box 629
Helper, Utah 84526

Dear Mr. McCloskey:

We have reviewed your March 21, 1978 letter and appreciate the prompt reply.

All of our concerns as described in my March 13, 1978 letter to you have been adequately satisfied with the exception of the refuse dump design.

We understand from the Phase II report by Golder Associates, January 1978, that the face of the dump will be made of compacted colluvial soils, organic material topsoil and possibly vegetation. Obviously, there would be no quality control applied to this material and it is possible that it may be less permeable than the refuse behind it, thus impeding drainage of the refuse should the water table in the dump rise to the face. The free draining characteristics of the refuse at the No. 3 Mine refuse area indicate that the School house Canyon dump should be fully drained and stable. However, Golder Associates found that if due to increased clay content of the refuse or adverse weather conditions the refuse did not drain freely, the dump slope would not be stable. The minimum dynamic safety factor of the dump slope must be greater than or equal to 1.0 and the static safety factor must be greater than or equal to 1.3. We have no problems with the dump slope ratio but the slope as designed must meet the above safety factors. Also, be advised that section 715.15 (b) (6) of the O.S.M. regulations calls for underdrains in valley fills with no apparent room for variance. For the above reasons, we strongly advise that the breaker material or coarse talus be used to construct a core drain through the dump.

This completes our review of the dump facility.

Sincerely,

BRIAN W. BUCK
ENGINEERING GEOLOGIST