

January 22, 1988

Mr. K. C. Chang
Mail Stop WF14H3
US Nuclear Regulatory Commission
Washington DC 20555

Dear Kien:

SUMMARY OF EFFORT, JANUARY 18, 1988 - JANUARY 22, 1988

This memo describes the tasks which have been addressed during the time period indicated.

1. A review of the literature was initiated to identify any analytical models with applicability to the unsaturated flow environment anticipated in tuff. A first approach will be to bound the problem by establishing a thermal profile, assuming no advection, estimate corrosion effects for steam only and then work from the other end, beginning with no advection but liquid saturation, then to two-phase considerations, if possible, followed by the inclusion of advection. There is not a lot of developed capability in this area, especially analytic capability.

2. Reviewed and advanced preparations for a detailed briefing to NRC on CONVO/CONVOPC.

Enclosed is a Voucher for Professional Services for this time period.

The tasks planned for the next period are:

1. Prepare, jointly, with the others in the consulting staff, for the briefing on CONVO/CONVOPC.

2. Continue the examination of models with possible utility in the tuff performance assessment.

If you have any questions, please call me.

Very Truly Yours,

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