For Approval Of

Name	Approved	Date
PA Eddy	PAE	8-1-84
PE Bramson	PEB	8-1-84

Project Number Histo

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PE Bramson
PA Eddy
MJ Graham
CT Kincaid
WD McCormack
PJ Mitchell
RW Nelson
JR Raymond
AE Reisenauer
JA Stottlemyre
LL Wendell
FILE/LB

Date July 31, 1984

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From LS Prater

Subject Modeling Meeting

This memo summarizes the results of the meeting on emergency modeling held on July 24. Attendees included M. J. Graham, R. W. Nelson, P. E. Bramson, L. L. Wendell, P. J. Mitchell, C. T. Kincaid and myself.

The main item of discussion involved being better prepared for emergency modeling by anticipating likely scenarios. Input files could be created for each of these scenarios in advance, eliminating the need to do it when an emergency arises (as long as the real emergency situation is fairly close to the anticipated situation). Input files could be prepared to cover: 1) current waste disposal sites, 2) decommissioning options for the waste sites, and 3) a fully decommissioned site. As these input files are prepared, the flow model could be run to determine the resulting pathlines and travel times. The assumptions used in modeling and the results obtained would then be documented and available for use when an emergency occurs. This plan seems to be reasonable and prudent, and we in the Ground-Water Surveillance Program intend to propose this work to DOE-RL. Assistance from Geosciences personnel will probably be needed to effectively explain this approach to DOE-RL.

Other items mentioned during the meeting were: 1) the possibility of using geostatistics to determine which well locations are most important to us, and 2) the need to develop the capability to model the movement of hazardous wastes accidently released to the ground onsite.

LSP:gd