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MEMORANDUM FOR: Michael J. Bell, Deputy Director
Division of Waste Management, NMSS

FROM: Patricia A. Comella, Deputy Director
Division of Health, Siting, and
Waste Management, RES

SUBJECT: REVIEW OF USE OF KRIGING IN TASC REPORT "BOREHOLE
ASSESSMENT NEEDS PLAN" TR-3677

Mark Logsdon requested, by memorandum to Edward O'Donnell (October 21, 1983), that we have our PNL contractors review the subject report. Logsdon noted the significance of the conclusion drawn by TASC with respect to further hydrologic investigation of the BWIP site and the importance of the "Kriging" technique in arriving at those conclusions. We also believe that the applicability of Kriging is a question requiring close examination if it is to be used to argue the sufficiency of a hydrologic testing program supporting a license application. Accordingly, we believe that other experts also should be asked to review the TASC report. We propose that our contractors working in hydrology at the University of Arizona and in stochastic hydrology at MIT as well as Drs. Thomas and Eberhardt of PNL review the report. Further, examination by one of our in-house statisticians might also be useful.

We are prepared to move quickly on this. Please let me know if you wish us to proceed with the broader review.

Patricia A. Comella

Patricia A. Comella, Deputy Director
Division of Health, Siting, and
Waste Management, RES

cc: Frank J. Arsenault, RES
Robert E. Browning, NMSS

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