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MEMORANDUM FOR: David J. Brooks, Acting Director
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Division of High-Level Waste Management, NMSS

FROM: Margaret V. Federline, Chief
Hydrology and Systems Performance Branch
Division of High-Level Waste Management, NMSS

SUBJECT: PHASE II REVIEW OF STUDY PLAN FOR CHARACTERIZATION OF THE
YUCCA MOUNTAIN REGIONAL SURFACE-WATER RUNOFF AND STREAMFLOW
(S.P. 8.3.1.2.1.2, REV 0) 411432, [L50019]

As requested, we have completed the Phase II review of the Study Plan for Characterization of the Yucca Mountain Regional Surface-Water Runoff and Streamflow (see enclosure). This review was conducted using the review plan for NRC Staff Review of DOE Study Plans, Rev. 1 (December 6, 1990).

The subject Study Plan has two activities; surface-water runoff monitoring (8.3.1.2.1.2.1) and transport of debris by severe runoff (8.3.1.2.1.2.2). These activities consists of measuring and recording the temporal, spatial, and physical characteristics of runoff and streamflow; and locations, quantities; and characteristics of debris transport. The results of this study will be used in the evaluation of Design Issues 2.7, 4.4, 1.12, and Performance Issues 2.3, 1.1, and 1.8. The study is scheduled to be completed seven years after the approval of the Study Plan.

Issues raised in this review are that more explicit consideration should be given to runoff measurement on the west side of Yucca Mountain and in Solitario Canyon, and that evaluating the probabilities of runoff magnitudes by any "regionalization" procedure or method should not be rejected.

This review was done by Don Chery of the Hydrologic Transport Section who can be reached on extension 23461.

[Signature]
Margaret V. Federline, Chief
Hydrology and Systems Performance Branch
Division of High-Level Waste Management

Enclosure:
As stated

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