

SEP 30 1991

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MEMORANDUM FOR: Joseph J. Holonich, Acting Director  
Repository Licensing and Quality Assurance  
Project Directorate  
Division of High-Level Waste Management

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

SUBJECT: PHASE I REVIEW OF STUDY PLAN FOR CHARACTERIZATION OF  
METEOROLOGY FOR REGIONAL HYDROLOGY (S.P. 8.3.1.2.1.1, REV 0)

As requested, we have completed the Phase I review of the Study Plan for Characterization of Meteorology for Regional Hydrology Rev 0 (see enclosure). This review was conducted using the Review Plan for NRC Staff Review of DOE Study Plans, Rec 1 (December 6, 1990).

The subject study plan consists of one activity, the characterization of meteorology for site and regional hydrology (8.3.1.2.1.1.1). This activity consists of measuring and analyzing precipitation, air temperature, relative humidity, barometric pressure, shortwave radiation, wind speed and direction, lightning occurrences, and cloud formations. The results of this study will be used to support hydrologic and dose assessment related studies. The study is scheduled to extend over ten years.

The principal finding of this review is that the study plan is a candidate for detailed technical review based on the importance of the issues being addressed. However, we do not recommend that a detailed review be conducted because the data collection and analysis methods to be employed have already been used for scientific investigations and we do not foresee any potential adverse effects on the site or future data collection activities from using these methods. Also, we do not recommend a technical exchange specifically for meteorologic characterization. It is our opinion that the characterization for specific meteorologic parameters should be discussed in the context of the studies being supported by these parameters. For example, precipitation collection may best be evaluated during the overall evaluation of runoff and infiltration.

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We do not require the submittal of additional references at this time.

This review was conducted by Rex Wescott of the Hydrologic Transport Section who can be reached on extension 20167.

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

Enclosure:  
As stated

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