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MEMORANDUM FOR: Richard Weller, Section Leader
Engineering Section
Engineering Branch, HLWM

FROM: Donald L. Chery, Jr., Section Leader
Hydrologic Transport Section
Geosciences and Systems Performance Branch, HLWM

SUBJECT: EVALUATION OF DOE'S RESPONSE TO CDSCP OBJECTION 3 RELATED
TO POTENTIAL TEST INTERFERENCE IN THE ESF

This memorandum is the Hydrologic Transport Section's response to your January 27, 1989 request for review in support of the Engineering Section's evaluation of DOE's response to CDSCP Objection 3. CDSCP Objection 3 concerns ESF design with respect to potential interference of proposed investigations with each other and from construction operations in the exploratory shafts and along drifts. As you noted, DOE's response is provided in material presented in SCP Section 8.4.2 (Description and Location of Characterization Operation).

The Hydrologic Transport Section has reviewed SCP Section 8.4.2 in the area of potential hydrologic interference between tests as directed. Rather than summarizing the section here, a detailed and accurate summary is contained in "Response To NRC Point Papers On Site Characterization Plan/Consultation Draft", December 1988, pgs. 0-5 to 0-7. CDSCP Objection 3 recommends that the SCP should discuss a strategy for minimizing potential interference between investigations. We conclude that the SCP presents a comprehensive strategy for assessing potential test-to-test and construction-to-test interferences at the ESF. If followed, the strategy should assure that potential interferences from various likely sources are reduced or eliminated. The strategy presented, including supporting analyses from references, surpasses the level of detail required for the SCP. When reviewing study plans, the Hydrologic Transport Section will determine how well the strategy is being implemented at the study plan level and review specific analyses on test interference if necessary. Please inform us if more specific hydrologic interference questions arise during your review of SCP Section 8.4.2.

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Donald L. Chery, Jr., Section Leader
Hydrologic Transport Section
Geosciences & Systems Performance Branch, HLWM

cc: J. Pohle, HLGP
D. Gupta, HLEN
K. Stablein, RLPD

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