

January 18, 2005

MEMORANDUM TO: Jack R. Strosnider, Director  
Office of Nuclear Material Safety  
and Safeguards

THRU: C. William Reamer, Director /RA/  
Division of High-Level Waste Repository Safety  
Office of Nuclear Material Safety  
and Safeguards

FROM: John S. Trapp, Igneous Activity Project Element Manager  
Division of High-Level Waste Repository Safety /RA/  
Office of Nuclear Material Safety  
and Safeguards

Brittian E. Hill, Senior Research Scientist /Trapp RA for Hill/  
Center for Nuclear Waste Regulatory Analyses

SUBJECT: OCTOBER 8-17, 2004, TRIP REPORT TO MEET WITH  
CONSULTANTS AT THE UNIVERSITY OF BRISTOL AND  
CAMBRIDGE, ENGLAND TO REVIEW STATUS OF ONGOING  
INVESTIGATIONS

Attached is a copy of the trip report describing the recent trip by Brittian E. Hill, of the Center for Nuclear Waste Regulatory Analyses, (CNWRA) to Bristol and Cambridge, England to meet with consultants to the CNWRA.

Ongoing technical investigations by the consultants to the CNWRA remain focused on evaluating risk significant processes associated with potential magma-repository interactions at Yucca Mountain, Nevada (YM). The work in 2004 continues to evaluate potential fluid dynamic effects for sustained magma flow in a vertical conduit that potentially intersects a horizontal tunnel. The team of consultants has conducted and is planning additional experiments to fully evaluate the range of conditions appropriate for potential magma-repository interactions and has outlined a final report to document the results of these investigations.

While these investigations are focusing on uncertain processes with the potential of high significance to risk calculations for a potential repository at YM, the staff consider that the content of this trip report will be of limited interest to the Commission.

Attachment:

Oct. 8-17, 2004, Brittian E. Hill CNWRA Foreign Trip Report, Bristol and Cambridge, England

cc: W. Dean  
M. Federline  
J. Dunn Lee  
T. Rothschild  
T. Sherr  
L. Silvius

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HLWRS r/f EWhitt

**ML050140383**

\*See Previous Concurrence

OFC	HLWRS		CNWRA		HLWRS		HLWRS		HLWRS	
NAME	JTrapp*		BHill*		JGuttman*		LKokajko		CWReamer	
DATE	01/18/05		01/18/05		01/18/05		/ /05		1/18/05	