

February 18, 2004

Joseph D. Ziegler, Director  
Office of License Application and Strategy  
U. S. Department of Energy  
Office of Civilian Radioactive Waste Management  
Office of Repository Development  
1551 Hillshire Drive  
North Las Vegas, NV 89134-6321

SUBJECT: REQUEST FOR REPORTS SUPPORTING PENA BLANCA SAMPLE SPLITS

Dear Mr. Ziegler:

On January 29, 2004, staff at the Center for Nuclear Waste Regulatory Analyses received seven rock core samples from the Nopal I natural analog site currently being studied by Department of Energy contractors. The samples, mailed by Hector Mendoza of the Autonomous University of Chihuahua, are:

Sample ID	Depth(m)	Formation
PB1023775 MTM5	8.95	Nopal rhyolitic ash-flow tuff
PB1023798 MTM4	29.78	Coloradas ash-flow tuff
PB1023812 MTM5	37.75	Coloradas ash-flow tuff
PB1023849 MTM6	66.50	Coloradas ash-flow tuff
PB1023935 MTM6	135.90	Coloradas ash-flow tuff (just above conglomerate contact)
PB1024009 MTM4	190.80	Pozos conglomerate
PB1024052 MTM5	221.14	Pozos conglomerate (near the top of the water table)

We understand that supporting data from the studied wells have been entered into the Yucca Mountain technical database. These documents include well log data that will help us better understand the samples' physical settings. We request copies of the relevant reports to support our independent analyses of the samples. The five requested reports are:

- 1) MOL.20040108.0359 PACKAGE TABLE OF CONTENTS FOR PENA BLANCA CFE ENGINEERING REPORTS AND ASSOCIATED TELEVIEWER LOG DATA FOR NATURAL ANALOGUES SYNTHESIS REPORT, TDR-NBS-GS-000027 REVISION 01
- 2) MOL.20040108.0360 REPORT STUDY OF GEOPHYSICAL LOGS IN FOUR WELLS LOCATED IN THE NOPAL FIELD, ALDAMA, CHIHUAHUA, FOR THE UNIVERSITY OF CHIHUAHUA (INCLUDES ORIGINAL SPANISH VERSION AND ENGLISH TRANSLATION)
- 3) MOL.20040108.0361 REPORT DRILLING AND INSTRUMENTATION OF THREE PIEZOMETERS, "UACH" PROJECT, "EL NOPAL" DEPOSIT, WELLS: PB-1, PB-2, AND PB-3 (INCLUDES ORIGINAL SPANISH VERSION AND ENGLISH TRANSLATION)

- 4) MOL.20040108.0362 REPORT REPORT ON THE TELEVIEWER LOG OF THE BOREHOLES PB-1 AND PB-3 AND WELL PB-4 IN NOPAL, MUNICIPALITY OF ALDAMA, CHIHUAHUA (INCLUDES ORIGINAL SPANISH VERSION OF ENGLISH TRANSLATION)
- 5) MOL.20040108.0363 DATA SPECIAL INSTRUCTION SHEET FOR TWO FLOPPY DISKS CONTAINING PENA BLANCA CFE ENGINEERING REPORTS AND ASSOCIATED TELEVIEWER LOG DATA FOR NATURAL ANALOGUES SYNTHESIS REPORT, TDR-NBS-GS-000027 REVISION 01.

Please mail the reports to:

Dr. David Pickett  
Center for Nuclear Waste Regulatory Analyses  
Southwest Research Institute  
6220 Culebra Rd.  
San Antonio, TX 78238

If you have any questions concerning this request, please call John Bradbury of my staff at 301-415-6597 or by email to [jwb@nrc.gov](mailto:jwb@nrc.gov). I appreciate your efforts in this matter.

Sincerely

**/RA/**

Janet Schlueter, Chief  
High-Level Waste Branch  
Division of Waste Management  
Office of Nuclear Material Safety  
and Safeguards

Letter or Memorandum to J. Ziegler from J. Schlueter, dated: February 18, 2004

cc:

A. Kalt, Churchill County, NV	M. Corradini, NWTRB
R. Massey, Churchill/Lander County, NV	J. Treichel, Nuclear Waste Task Force
I. Navis, Clark County, NV	K. Tilges, Shundahai Network
E. von Tiesenhausen, Clark County, NV	M. Chu, DOE/Washington, D.C.
G. McCorkell, Esmeralda County, NV	G. Runkle, DOE/Washington, D.C.
L. Fiorenzi, Eureka County, NV	C. Einberg, DOE/Washington, D.C.
A. Johnson, Eureka County, NV	S. Gomberg, DOE/Washington, D.C.
A. Remus, Inyo County, CA	W. J. Arthur, III , DOE/ORD
M. Yarbro, Lander County, NV	R. Dyer, DOE/ORD
S. Hafen, Lincoln County, NV	J. Ziegler, DOE/ORD
M. Baughman, Lincoln County, NV	A. Gil, DOE/ORD
L. Mathias, Mineral County, NV	W. Boyle, DOE/ORD
L. Bradshaw, Nye County, NV	D. Brown, DOE/OCRWM
M. Maher, Nye County, NV	S. Mellington, DOE/ORD
D. Hammermeister, Nye County, NV	C. Hanlon, DOE/ORD
M. Simon, White Pine County, NV	T. Gunter, DOE/ORD
J. Ray, NV Congressional Delegation	A. Benson, DOE/ORD
B. J. Gerber, NV Congressional Delegation	N. Hunemuller, DOE/ORD
F. Roberson, NV Congressional Delegation	M. Mason, BSC
T. Story, NV Congressional Delegation	S. Cereghino, BSC
R. Herbert, NV Congressional Delegation	N. Williams, BSC
L. Hunsaker, NV Congressional Delegation	E. Mueller, BSC
S. Joya, NV Congressional Delegation	J. Mitchell, BSC
K. Kirkeby, NV Congressional Delegation	D. Beckman, BSC/B&A
R. Loux, State of NV	M. Voegele, BSC/SAID
S. Frishman, State of NV	B. Helmer, Timbisha Shoshone Tribe
S. Lynch, State of NV	R. Boland, Timbisha Shoshone Tribe
P. Guinan, Legislative Counsel Bureau	R. Arnold, Pahrump Paiute Tribe
J. Pegues, City of Las Vegas, NV	J. Birchim, Yomba Shoshone Tribe
M. Murphy, Nye County, NV	R. Holden, NCAE

cc: (Continued)

R. Clark, EPA

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R. McCullum, NEI

S. Kraft, NEI

J. Kessler, EPRI

D. Duncan, USGS

R. Craig, USGS

W. Booth, Engineering Svcs, LTD

L. Lehman, T-Reg, Inc.

S. Echols, Esq

C. Marden, BNFL, Inc.

J. Bacoeh, Big Pine Paiute Tribe of the Owens Valley

P. Thompson, Duckwater Shoshone Tribe

T. Kingham, GAO

D. Feehan, GAO

E. Hiruo, Platts Nuclear Publications

G. Hernandez, Las Vegas Paiute Tribe

K. Finrock, NV Congressional Delegation

P. Johnson, Citizen Alert

A. Elzeftawy, Las Vegas Paiute Tribe

W. Briggs, Ross, Dixon & Bell

C. Meyers, Moapa Paiute Indian Tribe

R. Wilder, Fort Independence Indian Tribe

D. Vega, Bishop Paiute Indian Tribe

J. Egan, Egan, Fitzpatrick & Malsch, PLLC

J. Leeds, Las Vegas Indian Center

J. C. Saulque, Benton Paiute Indian Tribe

C. Bradley, Kaibab Band of Southern Paiutes

R. Joseph, Lone Pine Paiute-Shoshone Tribe

L. Tom, Paiute Indian Tribes of Utah

E. Smith, Chemehuevi Indian Tribe

D. Buckner, Ely Shoshone Tribe

V. Guzman, Walker River Paiute

D. Eddy, Jr., Colorado River Indian Tribes

H. Jackson, Public Citizen

J. Wells, Western Shoshone National Council

D. Crawford, Inter-Tribal Council of NV

I. Zabarte, Western Shoshone National Council

NRC On-Site Representatives

S. Devlin

G. Hudlow

- 6) MOL.20040108.0362 REPORT REPORT ON THE TELEVIEWER LOG OF THE BOREHOLES PB-1 AND PB-3 AND WELL PB-4 IN NOPAL, MUNICIPALITY OF ALDAMA, CHIHUAHUA (INCLUDES ORIGINAL SPANISH VERSION OF ENGLISH TRANSLATION)
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Sincerely

**/RA/**

Janet Schlueter, Chief  
 High-Level Waste Branch  
 Division of Waste Management  
 Office of Nuclear Material Safety  
 and Safeguards

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<b>OFC:</b>	HLWB	HLWB	HLWB	
<b>NAME:</b>	JBradbury*	LCampbell*	JSchlueter	
<b>DATE:</b>	2/10/04	2/10/04	2/18/04	

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