



Department of Energy
Office of Civilian Radioactive Waste Management
Yucca Mountain Site Characterization Office
P.O. Box 30307
North Las Vegas, NV 89036-0307

QA: N/A

MAR 30 2001

OVERNIGHT MAIL

C. William Reamer, Chief
High-Level Waste and Performance
Assessment Branch
Division of Waste Management
Office of Nuclear Materials Safety
and Safeguards
U.S. Nuclear Regulatory Commission
Two White Flint North
Rockville, MD 20852

TRANSMITTAL OF ANALYSIS AND MODEL REPORTS (AMR) AND OTHER ITEMS
ADDRESSING KEY TECHNICAL ISSUE (KTI) TECHNICAL EXCHANGES

This letter transmits the following three KTI agreement items, which are provided both on compact disc (enclosure 2) and in hard copy (enclosure 3):

ANL-EBS-MD-000037, Revision 01, ICN 00, In-Package Chemistry Abstraction. This document satisfies, in part, Evolution of the Near-Field Environment (ENFE) KTI agreement item 3.1.

ANL-EBS-MD-000056, Revision 00, ICN 00, In-Package Chemistry for Waste Forms. This document satisfies ENFE KTI agreement item 3.1, in part, and Container Life and Source Term (CLST) KTI agreement items 3.2, 3.3, 3.4, 3.6, 4.2, 4.3, 4.4 and 4.6, entirely. This document title and number differs from that identified in the original KTI agreement (formerly identified as Summary of In-Package Chemistry for Waste Forms, ANL-EBS-MD-000050). The "related AMRs and calculations" identified in CLST KTI agreement item 3/4.2 are not needed to satisfy this item since this new document includes the information that was originally intended to be in other documents.

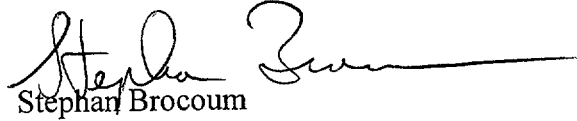
MDL-NBS-HS-000001, Revision 01, ICN 00, Drift-Scale Coupled Process (DST and THC Seepage) Models. This document satisfies ENFE KTI agreement items 1.3, 1.7 and 4.2, in part, and ENFE KTI agreement item 2, entirely.

Enclosure 1 of this letter also identifies several KTI agreement items scheduled for March or rescheduled from January and February for transmittal to the U.S. Nuclear Regulatory Commission (NRC) by March 31, 2001, but not yet available. The enclosure also provides the projected availability dates for these items. These availability date changes have been discussed with James W. Anderson of your staff.

WM-11
NM5507

MAR 30 2001

Please direct any questions concerning this letter and its enclosures to Timothy C. Gunter at (702) 794-1343.



Stephan Brocoum

Assistant Manager, Office of
Licensing and Regulatory Compliance

OL&RC:TCG-0972

Enclosures:

1. Revised Delivery Dates
2. CD Containing ANL-EBS-MD-000037, Revision 01, ICN 00, In-Package Chemistry Abstraction; ANL-EBS-MD-000056, Revision 00, ICN 00, In-Package Chemistry for Waste Forms; and MDL-NBS-HS-000001, Revision 01, ICN 00, Drift-Scale Coupled Process (DST and THC Seepage) Models
3. Hard Copy of Items Listed in Enclosure 2

cc w/encls 1, 2, and 3:

J. W. Anderson, NRC, Rockville, MD

cc w/encls 1 and 2:

K. C. Chang, NRC, Rockville, MD
D. J. Brooks, NRC, Rockville, MD
J. W. Bradbury, NRC, Rockville, MD
C. J. Glenn, NRC, Las Vegas, NV
S. H. Hanauer, DOE/HQ (RW-2) Las Vegas, NV
B. J. Garrick, ACNW, Rockville, DC
Richard Major, ACNW, Washington, DC
W. D. Barnard, NWTRB, Arlington, VA
Budhi Sagar, CNWRA, San Antonio, TX
W. C. Patrick, CNWRA, San Antonio, TX
Steve Kraft, NEI, Washington, DC
J. H. Kessler, EPRI, Palo Alto, CA
F. S. Echols, Winston & Strawn, Washington, DC
J. R. Curtiss, Winston & Strawn, Washington, DC
R. R. Loux, State of Nevada, Carson City, NV
Alan Kalt, Churchill County, Fallon, NV
D. A. Bechtel, Clark County, Las Vegas, NV
Harriet Ealey, Esmeralda County, Goldfield, NV

MAR 30 2001

cc w/encls 1 and 2: (continued)

Leonard Fiorenzi, Eureka County, Eureka, NV
Andrew Remus, Inyo County, Independence, CA
Mickey Yarbrow, Lander County, Battle Mountain, NV
Jason Pitts, Lincoln County, Caliente, NV
L. W. Bradshaw, Nye County, Pahrump, NV
John Meder, State of Nevada, Carson City, NV
Michael King, Inyo County, Edmonds, WA
Judy Shankle, Mineral County, Hawthorne, NV
Jerry McKnight, Nye County, Tonopah, NV
Josie Larson, White Pine County, Ely, NV
R. I. Holden, National Congress of American
Indians, Washington, DC
Allen Ambler, Nevada Indian Environmental
Coalition, Fallon, NV

cc w/encl 1 only:

N. K. Stablein, NRC, Rockville, MD
S. L. Wastler, NRC, Rockville, MD
W. L. Belke, NRC, Las Vegas, NV
L. H. Barrett, DOE/HQ (RW-1) FORS
A. B. Brownstein, DOE/HQ (RW-52) FORS
R. A. Milner, DOE/HQ (RW-2) FORS
N. H. Slater, DOE/HQ (RW-52) FORS
Nancy Williams, BSC, Las Vegas, NV
S. J. Cereghino, BSC, Las Vegas, NV
J. G. Linhart, NSNFP, Las Vegas, NV
J. H. Smyder, Naval Reactors, Las Vegas, NV
R. B. Bradbury, MTS, Las Vegas, NV
K. M. Cline, MTS, Las Vegas, NV
R. P. Gamble, MTS, Las Vegas, NV
J. R. Dyer, DOE/YMSCO, Las Vegas, NV
D. G. Horton, DOE/YMSCO, Las Vegas, NV
Stephan Brocoum, DOE/YMSCO, Las Vegas, NV
D. R. Williams, DOE/YMSCO, Las Vegas, NV
S. P. Mellington, DOE/YMSCO, Las Vegas, NV
A. V. Gil, DOE/YMSCO, Las Vegas, NV
J. M. Replogle, DOE/YMSCO, Las Vegas, NV
E. T. Smistad, DOE/YMSCO, Las Vegas, NV
T. C. Gunter, DOE/YMSCO, Las Vegas, NV
D. L. Barr, DOE/YMSCO, Las Vegas, NV
C. L. Hanlon, DOE/YMSCO, Las Vegas, NV

C. William Reamer

-4-

MAR 30 2001

cc w/encl 1 only: (continued)

S. A. Morris, DOE/YMSCO, Las Vegas, NV

P. G. Harrington, DOE/YMSCO, Las Vegas, NV

P. R.Z. Russell, DOE/YMSCO, Las Vegas, NV

J. T. Sullivan, DOE/YMSCO, Las Vegas, NV

C. A. Kouts, DOE/YMSCO (RW-2) FORS

OL&RC Library

Records Processing Center =

(ENCLS 2 and 3 = READILY AVAILABLE)

ENCLOSURE 1
REVISED DELIVERY DATES

DOE/NRC KTI Agreement Number	NRC Status	Deliverable	Rev/ICN	Revised NRC Due Date	COMMENTS
ENFE 1.7	Closed-pending	Single Heater Test - Final Report & Data to Support the Matrix/Fracture Model	final report	1-Apr-01	The mineralogy/petrology analysis data from post-test overcoring the Single Heater Test is available in a controlled source. The DTN noted in the KTI agreement has been superceded by the following two DTNs: LA0009SL831151.001 and LA0009SL831151.002. The NRC should be able to access these materials electronically on April 1, 2001. The SHT final report [MOL.20000103.0634] will also be available electronically on April 1, 2001, and will be provided in hard copy and CD by April 30, 2001.
ENFE 1.1, 2.1, 4.7 & 5.2, RT 2.11 & 4.2, TEF 1.1, CLST 5.2	Closed-pending	ANL-NBS-MD-000001	01/00	15-Apr-01	This is the last of the updated UZ FEPs AMRs.
RDTME 3.1 & TEF 2.7	Closed-pending	ANL-EBS-MD-000030	01/00	31-May-01	Ventilation Model. Revision 1 requires changes. Revision 2 is in process and will be provided to satisfy the agreement items.
TEF 2.6	Closed-pending	Detailed Test Plan	n/a	31-May-01	A new test description is being prepared to broaden the scope of this test. The new scope will allow the test to produce data for the validation of MULTIFLUX model used to predict the performance of the postclosure ventilation, as well as provide the data needs identified for the validation of the ANSYS model.
ENFE 4.1	Closed-pending	TOUGHREACT	Rev 2.2	TBD	Legal agreements are not yet complete.