

April 22, 2003

Joseph D. Ziegler, Acting Director
Office of License Application and Strategy
U.S. Department of Energy
Office of Repository Development
P.O. Box 364629 M/S 523
North Las Vegas, NV 89036-8629

SUBJECT: TOTAL SYSTEM PERFORMANCE ASSESSMENT AND INTEGRATION
AGREEMENT (TSPA).4.07

Dear Mr. Ziegler:

In your letter dated December 23, 2002, the U.S. Department of Energy (DOE) provided information related to the Agreement TSPA.4.07. This Agreement acknowledges the DOE update of procedure AP SI.1Q Software Management and requests DOE to consider the process it would follow to conduct a systematic and uniform software verification, to ensure correct implementation of algorithms and to fully disclose calculations and results. After review of the DOE letter, the U.S. Nuclear Regulatory Commission (NRC) staff considers the response incomplete because only a portion of the information requested by the Agreement has been provided for NRC review. While DOE references the revised software qualification procedure requested by the Agreement, documentation of compliance with this procedure (also requested by the Agreement in the form of records packages) has not been completed. Furthermore, the DOE letter informs NRC of a decision to develop an additional procedure related to verification and validation of legacy codes. NRC staff believe the concerns raised in Agreement TSPA.4.07 apply to this additional procedure since it relates to software management and, specifically, verification and validation. Finally, NRC staff expects to observe a DOE quality assurance audit regarding software management in May of 2003 to gain additional insight into the new software life cycle process described in the revised procedures.

To satisfy Agreement TSPA.4.07 completely, DOE should complete and provide for NRC review: (i) the revised verification and validation procedures for legacy codes and (ii) documentation of compliance with the revised software management and legacy code verification and validation procedures (including records packages and satisfactory quality assurance audit results).

J. Ziegler

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The staff concludes that important information requested in the Agreement has not been provided by the DOE to address Agreement TSPA.4.07 fully. Therefore, Agreement TSPA.4.07 is listed as "Partly Received." If there are any questions regarding this letter, please contact Richard Codell at 301-415-8167 or by e-mail at rbc@nrc.gov.

Sincerely,

/RA/

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

cc: See attached distribution list

J. Ziegler

-2-

The staff concludes that important information requested in the Agreement has not been provided by the DOE to address Agreement TSPA1.4.07 fully. Therefore, Agreement TSPA1.4.07 is listed as "Partly Received." If there are any questions regarding this letter, please contact Richard Codell at 301-415-8167 or by e-mail at rbc@nrc.gov.

Sincerely,

/RA/

Janet R. Schlueter, Chief
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Division of Waste Management
Office of Nuclear Material Safety

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and Safeguards

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Letter to J. Ziegler from J. Schlueter, dated:
cc:

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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
D. Carriger, 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
D. Chavez, Nye County, NV	S. Mellington, DOE/ORD
D. Hammermeister, Nye County, NV	C. Hanlon, DOE/ORD
J. Larson, White Pine County, NV	T. Gunter, DOE/ORD
J. Ray, NV Congressional Delegation	S. Morris, DOE/ORD
B. J. Gerber, NV Congressional Delegation	J. Mitchell, BSC
F. Roberson, NV Congressional Delegation	M. Mason, BSC
T. Story, NV Congressional Delegation	S. Cereghino, BSC
J. Reynoldson, NV Congressional Delegation	N. Williams, BSC
L. Hunsaker, NV Congressional Delegation	M. Voegele, BSC/SAIC
S. Joya, NV Congressional Delegation	D. Beckman, BSC/B&A
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R. Loux, State of NV	P. Johnson, Citizen Alert
S. Frishman, State of NV	R. Holden, NCAI
S. Lynch, State of NV	B. Helmer, Timbisha Shoshone Tribe
M. Paslov Thomas, Legislative Counsel Bureau	R. Boland, Timbisha Shoshone Tribe
J. Pegues, City of Las Vegas, NV	J. Birchim, Yomba Shoshone Tribe
M. Murphy, Nye County, NV	R. Arnold, Pahrump Paiute Tribe

cc: (Continued)

R. Clark, EPA

R. Anderson, NEI

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

M. Smurr, BNFL, Inc.

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

R. Mike, Duckwater Shoshone Tribe

T. Kingham, GAO

D. Feehan, GAO

E. Hiruo, Platts Nuclear Publications

G. Hernandez, Las Vegas Paiute Tribe

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D. Vega, Bishop Paiute Indian Tribe

J. Egan, Egan & Associates, PLLC

J. Leeds, Las Vegas Indian Center

R. M. 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

V. McQueen, Sr., Ely Shoshone Tribe

R. Quintero, Inter-Tribal Council of NV
(Chairman, Walker River Paiute Tribe)

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

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