

May 21, 2003

Mr. Robert R. Loux, Executive Director  
Agency for Nuclear Projects  
Office of the Governor  
State of Nevada  
1802 N. Carson Street, Suite 252  
Carson City, NV 89701

SUBJECT: STATE OF NEVADA MEETING REQUEST REGARDING TOTAL-SYSTEM  
PERFORMANCE ASSESSMENT VERSION 4.1J CODE

Dear Mr. Loux:

I am responding on behalf of the U.S. Nuclear Regulatory Commission (NRC) staff to the request from the State of Nevada to conduct a meeting to share information regarding NRC's Total-System Performance Assessment (TPA) code. The initial request proposed a discussion of the model and code architecture including a description of assumptions, abstractions, inputs, and validation for the TPA code. Members of NRC staff will be available to meet with you at 1:30 p.m. (EDT) on June 17, 2003, to discuss the TPA code.

I am enclosing ten electronic copies of the following items to provide background material and help generate specific questions regarding the TPA Version 4.1j code:

- (1) TPA Version 4.1j code executable and auxiliary data files,
- (2) TPA Version 4.0 code: Module Descriptions and User's Guide, and
- (3) Staff presentations to the Advisory Committee on Nuclear Waste regarding the TPA 4.1j code.

The TPA code and the supporting documentation were developed for use by the NRC staff and its contractor, the Center for Nuclear Waste Regulatory Analyses. Therefore, the code is provided to you with no guarantee it will operate on your computer systems and without any commitment to support your use of the software.

Please read the enclosed file, *TPA Installation Readme.txt*, for installation and execution instructions for the TPA Version 4.1j code. If you should have any remaining questions regarding installation of the code, a member of NRC technical staff (Christopher Grossman, 301-415-7658 or [cjg2@nrc.gov](mailto:cjg2@nrc.gov)) can provide additional assistance with installation of the code.

During the meeting, NRC staff plans to provide an overview of the role and use of NRC's TPA code to independently review a potential Department of Energy license application for Yucca Mountain. The NRC staff will also be available to discuss NRC's development of the code as well as aspects of the TPA code presented in the enclosed Module Descriptions and User's

Mr. R. R. Loux

2

Guide. Staff would also be able to discuss specific questions you may have regarding the TPA Version 4.1j code.

I look forward to the upcoming meeting and addressing your request. If you have any questions regarding the meeting, please contact Andy Campbell of my staff at (301) 415-6897 or acc@nrc.gov.

Sincerely,

***/RA/***

Lawrence E. Kokajko, Acting Chief  
Environmental and Performance  
Assessment Branch  
Division of Waste Management  
Office of Nuclear Material Safety  
and Safeguards

Enclosure: As stated

cc: See attached distribution list

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
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
K. Kirkeby, NV Congressional Delegation	W. Briggs, Ross, Dixon & Bell
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. Bocoeh, 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

K. Finrock, NV Congressional Delegation

C. Meyers, Moapa Paiute Indian Tribe

R. Wilder, Fort Independence Indian Tribe

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

NRC On-Site Representatives

---

Mr. R. R. Loux

2

Guide. Staff would also be able to discuss specific questions you may have regarding the TPA Version 4.1j code.

I look forward to the upcoming meeting and addressing your request. If you have any questions regarding the meeting, please contact Andy Campbell of my staff at (301) 415-6897 or acc@nrc.gov.

Sincerely,

**/RA/**

Lawrence E. Kokajko, Acting Chief  
Environmental and Performance  
Assessment Branch  
Division of Waste Management  
Office of Nuclear Material Safety  
and Safeguards

Enclosure: As stated

cc: See attached distribution list

<b>DISTRIBUTION:</b>	EPAB r/f	HLWB rf tf	JGreeves	CWReamer	JKotra
LCampbell	TMcCartin	JSchlueter	NKStablein	DDambly	DHiggs
MYoung	LChandler	WMaier, RIV	DEsh	CNWRA	GHatchett
LSN	ACNW	OSR	ACoggins	BSpitzberg	
File Center	Public				

DOCUMENT NAME: G:\DWM\EPAB\CJG\Nevada TPA Letter.WPD Log No.: 03-078

**ML**

\*See previous concurrence page

OFC	DWM: EPAB		DWM:EPAB		DWM:EPAB			
NAME	CGrossman:ml*		ACampbell*		LEKokajko			
DATE	5/21 /03		5/ 21 /03		5/ 21/03			

**OFFICIAL RECORD COPY**

This document **should** be made available to the PUBLIC CJG 5/ 21 /03