



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

March 17, 1999

Dr. Stephan J. Brocoum
Assistant Manager for Licensing
U.S. Department of Energy
Yucca Mountain Site Characterization Office
P.O. Box 30307
North Las Vegas, NV 89036-0307

SUBJECT: TRANSMITTAL OF TPA CODE (VERSION 3.2) AND RELATED DOCUMENTATION

Dear Dr. Brocoum:

In your November 13, 1998, letter to Michael J. Bell you requested a copy of the U.S. Nuclear Regulatory Commission's (NRC's) Total Performance Assessment (TPA) computer program used to estimate performance of the proposed high-level waste repository at Yucca Mountain, Nevada. Your additional request for the MULTIFLO code will be addressed through a separate correspondence. I am pleased to enclose the latest version of the TPA code (Version 3.2) and the accompanying documentation with the hope that your use of the code will increase your understanding of the technical rationale for our performance concerns and further enhance discussions between our technical staffs and contractors.

Be advised, however, that development and improvements to the models and parameters contained within TPA Version 3.2 are ongoing; therefore, specific modeling approaches and parameter values are likely to change in the future. We will provide the U.S. Department of Energy with notice as future versions of the TPA code are developed and become available.

I would also like to advise you that NRC developed the TPA Version 3.2 code and the related documentation for use by NRC and its contractor; therefore, the code is provided to you with no guarantee it will operate on your computer system and without any commitment to support your use of it. The related documentation was developed for internal distribution and has not received the level of review afforded to NUREG reports. Additionally, I would point out that TPA Version 3.2 code calculates dose and leaves the incorporation of the probability of the scenario as a post-processing step. NRC has developed two computer programs (dosestat.f and igstat.f) for estimating risk by combining TPA Version 3.2 derived dose estimates with their associated probabilities. These programs are also included on the enclosed tape.

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Dr. S. Brocoum

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If you have any further questions regarding the TPA code or its documentation, please contact Timothy McCartin of my staff at (301) 415-6681 or by e-mail at tjm3@nrc.gov.

Sincerely,

[Original signed by:]

John T. Greeves, Director
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

Enclosures: As stated (2)

cc: See next page

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NAME	TMcCartin/jc	McConnell	MBell	JGreeves				
DATE	2/17/99	2/19/99	2/19/99	2/17/99				

*BT
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Letter to S. Brocoum from J. Greeves dated: March 17, 1999

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