

December 14, 2001

Dr. Man-Sung Yim
Department of Nuclear Engineering
2102 Burlington Engineering Labs
Box 7909
Raleigh, NC 27695-7909

SUBJECT: RESPONSE TO YOUR REQUEST FOR A COPY OF THE U.S. NUCLEAR
REGULATORY COMMISSION PERFORMANCE ASSESSMENT CODE AND
INPUT DATA SET

Dear Dr. Yim:

Per your request, I have enclosed a copy of the U.S. Nuclear Regulatory Commission (NRC) performance assessment code for the potential high-level radioactive waste repository located at Yucca Mountain, Nevada, and the corresponding user's guide. The enclosed code is the personal computer version of the Total-system Performance Assessment (TPA) Version 3.2PC β code. At the time that the TPA Version 3.2PC β code was created, the primary version of the TPA code operated on a UNIX operating system. The personal computer version differs by including the necessary functions and routines to allow the code to run on a personal computer. The input data set is included on the enclosed compact disk and it is discussed in Appendix A of the user's guide.

Development and improvements to the models and parameters contained within TPA Version 3.2 continue, so specific modeling approaches and parameter values are likely to change (e.g., in the area of igneous activity).

The TPA code and the supporting documentation were developed for use by the U.S. Nuclear Regulatory Commission staff 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 the software. The user's guide was developed for internal use and has not received the level of review given to NUREG reports.

Dr. Man-Sung Yim

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If you have any further questions regarding the TPA code or its documentation, please contact Christopher Grossman at 301-415-7658 or by electronic mail at cjg2@nrc.gov or me at 301-415-6628 or by electronic mail at jrf2@nrc.gov.

Sincerely,

James R. Firth, Element Manager **/RA/**
Environmental and Performance Assessment
Branch
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

Enclosures: TPA 3.2 User's Guide
TPA Version 3.2 PC Beta Code

Dr. Man-Sung Yim

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James R. Firth */RA/*
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