

October 12, 2007

Robert R. Loux, Executive Director
Agency for Nuclear Projects
Office of the Governor
State of Nevada
1761 E. College Parkway, Suite 118
Carson City, NV 89706

SUBJECT: AVAILABILITY OF, AND PRESENTATION ON, TOTAL-SYSTEM
PERFORMANCE ASSESSMENT VERSION 5.1A CODE

Dear Mr. Loux,

This is to inform you that a new version of the U.S. Nuclear Regulatory Commission's (NRC) Total-system Performance Assessment (TPA) code and a User Guide has been made publicly available through the NRC Agencywide Document Access and Management System (ADAMS), and both noted items are enclosed for your convenience. ADAMS is accessible through the internet at <http://www.nrc.gov/reading-rm/adams.html>. The ADAMS accession number for the User Guide is ML072710060. For the code it is ML072770577. Copies of the CD-ROM containing the code can be obtained through the NRC Public Document Room (<http://www.nrc.gov/reading-rm/contact-pdr.html>).

The TPA Version 5.1a computer code was developed through a joint effort by NRC and Center for Nuclear Waste Regulatory Analyses (CNWRA) staff members. TPA Version 5.1a is a review tool developed to assist staff in prelicensing activities and review of a potential U.S. Department of Energy license application for a geologic repository at Yucca Mountain. The two CD-ROMs enclosed contain: 1) TPA Version 5.1 Module Descriptions and User Guide; and 2) TPA 5.1a Source Code, Executables, and Data Files.

TPA Version 5.1a is designed to run on desktop personal computers with Microsoft® Windows®-based operating systems (i.e., Windows® 2000 and Windows® XP) and a minimum of 2 gigabytes of RAM (or RAM, plus virtual memory). The TPA Version 5.1 User Guide describes for TPA Version 5.1a: (1) the code installation and execution procedures (Chapter 3); (2) the underlying conceptual and mathematical models; (3) contents of the various input and output files; (4) input data and parameter values for a reference case; and (5) explanation of options for generating various intermediate and summary outputs. If you should have any questions about installation of the code, a member of the NRC technical staff (Christopher Grossman, 301-492-3177, or cjg2@nrc.gov) can provide additional assistance with installation of the code.

The TPA code and the supporting documentation were developed for use by the NRC staff and its contractor, the CNWRA. 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.

I also want to inform you that NRC staff will be discussing TPA Version 5.1a in an upcoming public meeting. NRC staff will brief the Advisory Committee on Nuclear Waste and Materials (ACNW&M) in Rockville, Maryland, at its 183rd Meeting on the morning of October 17, 2007. More information on the ACNW&M meeting is available at <http://www.nrc.gov/reading-rm/doc-collections/acnw/agenda/2007/183.pdf>.

If you have any questions about the User Guide or wish to obtain additional CD-ROM copies of the User Guide or TPA Version 5.1a code, please contact Bret Leslie, of my staff, at (301) 492-3196, or bwl@nrc.gov.

Sincerely,

/RA/ S. Whaley for

Jack Davis, Deputy Director
Technical Review Directorate
Division of High-Level Waste Repository Safety
Office of Nuclear Material Safety
and Safeguards

Enclosures: As stated

cc: See attached list.

Letter to R. Loux from J. Davis dated: October 12, 2007

cc:

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Jack Davis, Deputy Director
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Division of High-Level Waste Repository Safety
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