

**From:** Gilbert Millman  
**To:** NRCWEB  
**Date:** 3/5/02 10:20AM  
**Subject:** Request to Repost the DandD Code on the NRC Public Web Site.  
**Place:** NRCWEB

Please repost the D and D code to the NRC public web site.

The software and related information have been reviewed based on Commission guidance (dated January 25, 2002) to the staff for developing final criteria for release of information to the public. Based on this sensitivity review, it has been determined that the D and D code and related information is benign and contains no sensitive information that can be misused by those with malevolent intentions toward NRC-regulated facilities and activities. The result of the review (attached) has been approved by Farouk Eltawila (D:DSARE), the cognizant RES Division Director.

I will immediately bring to Joan Hoffman a CD with all necessary files, and a markup of the previous posting for guidance.

Thanks,  
Gil Millman  
RES OCIO Liaison

**CC:** Cheryl Trottier; Farouk Eltawila; Francine Goldberg; Juanita Beeson; Mabel Lee;  
Ralph Cady; Roy Zimmerman

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**From:** Farouk Eltawila  
**To:** Gilbert Millman  
**Date:** 3/5/02 9:44AM  
**Subject:** Fwd: Request to repost the DandD code on the NRC/RES public web site.

Gil:  
I concur with Cheryl to re-install the code on the web. Thanks.

**From:** Cheryl Trottier  
**To:** Farouk Eltawila  
**Date:** 3/5/02 8:33AM  
**Subject:** Fwd: Request to repost the DandD code on the NRC/RES public web site.

This is a code that was removed from the web and needs to be re-installed. Would you please approve and forward to Gil Millman? Thanks

**From:** Ralph Cady  
**To:** Cheryl Trottier  
**Date:** 3/4/02 3:46PM  
**Subject:** Request to repost the DandD code on the NRC/RES public web site.

**SUBJECT: REQUEST TO RESUME AVAILABILITY OF THE DandD CODE ON THE NRC/RES PUBLIC WEB SITE**

The Decommissioning and Decontamination (DandD) software package developed by Sandia National Laboratories for the Nuclear Regulatory Commission (NRC) provides a user-friendly analytical tool to address the technical dose criteria contained in NRC's Radiological Criteria for License Termination rule (10 CFR Part 20 Subpart E). Specifically, DandD embodies the NRC's screening methodology to allow licensees to convert residual radioactivity contamination levels at their site to annual dose, in a way consistent with both 10 CFR Part 20 and the corresponding implementation guidance currently under development by NRC. The screening methodology and DandD are part of a larger decision framework that allows and encourages licensees to optimize decisions regarding alternative actions at their site, including the collection of additional data and information. The screening methodology employs reasonably conservative scenarios, fate and transport models, and default parameter values and parameter distributions to allow the NRC to quantitatively estimate the risk of terminating a license given only information about the level of contamination.

From our review of the Commission's "GUIDANCE TO THE STAFF ON RELEASE OF INFORMATION TO THE PUBLIC", we conclude that the code should, once again, be made available to the public for the following reasons:

1. Neither the code nor the supporting documents contain information properly determined to be exempt from disclosure, such as classified, proprietary, privacy or safeguards information.
2. Neither the code nor the supporting documents contain any sensitive information;
  - no plant-specific information,
  - no site or facility location information,
  - no site or facility physical vulnerabilities or weaknesses, or potential weaknesses,
  - no construction details of specific facilities,
  - no information on any barriers at nuclear facilities, and
  - no details regarding quantities of radioactive material present or authorized.
3. Neither the code nor the supporting documentation would provide "benefit to a terrorist in a potential attack."

Attached are the two "text" files that were slightly modified to update the web material. In addition, I'll give Gil Millman a CDROM containing the DandD setup file, the two attached files, and the User's guide in pdf format.

## Code Description

DandD: A Code for Screening analyses or License Termination and Decommissioning The objective of the software, Decontamination and Decommissioning (DandD) code, is to provide a user-friendly interface to assist the Nuclear Regulatory Commission (NRC) with screening analyses in support of decommissioning under the License Termination Rule. DandD Version 2.0 currently is available for use and testing. It updates, improves, and significantly enhances the capabilities of Version 1.0. In particular, Version 2.0 allows full probabilistic treatment of dose assessments, whereas, Version 1.0 embodied constant default parameter values only allowing deterministic analyses. The DandD software automates the definition and development of the scenarios, exposure pathways, models, mathematical formulations, assumptions, and justifications of parameter selections documented in Volumes 1 and 3 of NUREG/CR-5512.

Two scenarios are implemented in DandD: building occupancy and residential. The building occupancy scenario relates volume and surface contamination levels in existing buildings (presumably released following decommissioning for unrestricted commercial or light industrial use) to estimates of the total effective dose equivalent (TEDE) received during a year of exposure with the conditions defined in the scenario. The more complex and generalized residential scenario is meant to address sites with contamination in soils and groundwater. Input parameter distributions for each scenario and exposure pathway were developed consistent with conducting screening dose assessments, increasing the likelihood of overestimating rather than underestimating potential dose.

## Obtaining DandD

Click [here](#) to Download DandD.

Click [here](#) for instructions on Installation and Setup of DandD on your Computer.

Click [here](#) to view the User's Manual for this version of DandD.

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**Environment:**

This version is designed to run under Microsoft Windows-95, Windows-98, Windows-NT and Windows-2000. Under NT and 2000, Administrator Rights are required to fully complete the installation. If you do not have those rights on your system, contact your network administrator.

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1. If you have any other version of DandD 2.x installed, please uninstall before loading this version.
2. A browser must be installed to view reports and parameter help. DandD does not use the World Wide Web, but uses your browser to view documents on your PC. Your web browser will give you the ability to save the reports as text files and print reports and documentation.

In order to view the NRC Reference documentation in its totality, a frame enabled browser such as Internet Explorer version 3.0 or a frame enabled Netscape communicator must be installed. Frame support is not needed to view Reports.

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**Installation of DandD version 2.1.0**

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1. Run Setup.exe from the Start menu to install DandD version 2.1.0.
2. Click on the Start button, select Run.
3. Click on the Browse button, and locate the Setup.exe file that you downloaded from NRC.
4. Click OK. DandD should now install.

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**DandD from Windows Startup Menu**

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After you install DandD the following is added to the DandD group. These can be accessed from the Start menu.

1. Main group
  - a. DandD                      Note: hit function key F1 for online help.
  - b. DandD Help
  - c. Uninstall DandD

#### Documents subgroup

- a. Introduction to DandD - Opens an rtf (rich text) file which introduces the application, and discusses example problems that you can run.
- b. NRC References - Link to HTML formatted documentation of the scenario models and parameters.
- c. Readme - This file.
- d. Getting Started - Opens an rtf file which helps you get started with your first session.

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#### Known bugs or puzzling features

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- 1. If you have the alpha version of DandD 2.0 installed, please uninstall before loading this version.
- 2. You must have a browser installed on your machine in order to view the reports and the parameter help. The parameter help requires a browser that supports frames.

For problems with the installation, you may contact us via email at [DandD@nrc.gov](mailto:DandD@nrc.gov)