

Update to DEEP 2.0: Version 2.1

(May-2001)

The DEEP version 2.0 was issued in early 2000. This is the first update of DEEP 2.0 based on user experience and feedback obtained from participants of the DEEP training workshop organized by the International Atomic Energy Agency, which took place from 30 April to 4 May, 2001 at the International Centre for Theoretical Physics, Trieste, Italy.

Prerequisites: DEEP Version 2.0 installed from DEEP 2.0 CD-ROM (April 2000).

Warning: All changes made by user in files *Deep20.xls*, *CaseTemplate.xls*, *EmptyCP.xls*, *Sample Case.xls* and *Sample CP.xls* in Excel file **DEEP 2.0** will be overwritten by the installing **DEEP 2.1 Update.xls**.

Procedure:

1. Save copy of **DEEP Update to Version 2.1.exe** on your PC hard drive (e.g. on Desktop) then double click it. This self-extractor file will create the directory (default name is *C:\DEEP Update Directory*) on your hard disk.
2. Open the above directory and double click on the Excel file **DEEP 2.0 to DEEP 2.1 Update.xls**. The updating procedure will then proceed automatically.

Note: In the case the above procedure fails for some reason, you still have the possibility to manually execute the update procedure. Simply copy following files into corresponding directories (this will overwrite the old versions):

Filename	Directory to Copy into
Deep20.xls	Program Files\DEEP20\
CaseTemplate.xls	Program Files\DEEP20\Templates\
EmptyCP.xls	Program Files\DEEP20\Templates\
Sample Case.xls	My DEEP Documents\Cases\
Sample CP.xls	My DEEP Documents\CPs\

Main Changes in DEEP Version 2.1

There are no principal functional changes in DEEP 2.1 compared with DEEP 2.0. Some spelling mistakes were corrected, and improvements to the VBA code were made inside the DEEP20.xls Excel file in order to increase application robustness. The change most visible by the user is the suppressing of the “Out of scope” messages, which typically followed the composition of a new power-desalination technology combination after the **New Case Command** had been selected.

New checks and respective messages were added into routines in **Case** files, especially those which track numerical behavior of routines calculating **Minimum required Tmb** and of routines for interpolation based on performance graphs for different types of RO elements presented in the DEEP manual. As an improvement, new wordings of these messages were inserted into related functions and a global variable controlling the appearance of these messages was added into this file with the default status set to **NOT TO SHOW MESSAGES**. However, the results of these checks are retained, used for subsequent calculations, and presented to the user in the **Input and Report** sheets.