

**SCALE SQA Coordinator's Procedure
for Module Revisions on Windows Personal Computers (PCs)**

Prepared by

S. Y. Walker
S. M. Bowman

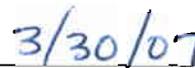
Nuclear Systems Analysis, Design, and Safety (NSADS)
Nuclear Science and Technology Division (NSTD)
Oak Ridge National Laboratory

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Approvals:



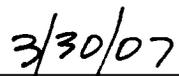
SCALE Project Leader



Date



Quality Program Manager, NSTD



Date

SCALE SQA Coordinator's Procedure for Module Revisions on Windows PCs

1.0 PURPOSE

To describe a standardized operational procedure to be followed for implementation of SCALE module revisions on Windows PCs where SCALE is configuration controlled. The procedure outlined in this document complies with the Configuration Management Plan (CMP) for the SCALE code system that is controlled by the NSTD Nuclear Systems Analysis, Design, and Safety (NSADS) Group.

2.0 SCOPE

This procedure covers the modifying and testing of SCALE executable modules on Windows PCs.

3.0 PROCEDURE

3.1 Updating Source Files on PC

- 3.1.1 After completing MRR updates on the UNIX workstation (steps 3.1 – 3.4 of procedure SCALE-CMP-007) go to ~x4s/tar on the UNIX workstation to “tar” the files of that module using the “tardir” command. The example below uses the module PMC.

```
~x4s/tar> tardir pmc
```

- 3.1.2 On the Windows PC, open “My Network Places” and connect to \\Cpesrv\users. Click on “x4s” folder, then on the “tar” folder.
- 3.1.3 Open the tarred and zipped file (e.g, pmc.tar.gz) and highlight the Fortran source files updated in the MRR (NOTE: exclude the archived “,v” files). Extract the files to the appropriate location (e.g., C:\scale5.1\src\pmc). Make sure that the “use folder names” box is not checked prior to extraction.

3.2 Compiling Source Files on PC

- 3.2.1 Delete the executable (“.exe”) files in the SCALE bin directory (e.g., C:\scale5.1\bin) for the module(s) to be updated by this MRR. (Note that this includes all modules listed under “Other modules affected” in Part III of the MRR.) Also note that libraries (i.e., MIPLIB, SCALELIB, SENLIB, etc.) do not have “.exe” files.
- 3.2.2 Open the LF Console Prompt and change directories to the directory with the updated Fortran source files (e.g., C:\scale5.1\src\pmc) and execute the

“make” command.

```
C:\scale5.1\src\pmc> make
```

3.2.3 Repeat the previous step for each “.exe” file that was deleted in step 3.2.1.

3.2.4 Open the “Run SCALE” command prompt window. Update the QA table by executing the “updateqa” command.

```
C:> updateqa
```

3.2.5 The module revision numbers in the qatable file should match those in the Unix version. Open the qatable file in a text editor. This file will be in the SCALE data folder (e.g., C:\scale5.1\data\qatable). Update the revision numbers for the updated modules based on the Unix qatable.

3.2.6 Make a copy of the updated qatable file and name it “qatable.install.” Open “qatable.install” and replace all occurrences of the drive letter (e.g., “C:”) with “1:” (i.e., the numeral one).

3.2.7 Enter the production implementation date information in Part VI of the MRR for Windows objects and executables that were updated.

3.3 Executing the Test Problem(s)

3.3.1 Execute test problems as directed in Paragraph 3.5 of SCALE-CMP-007.

3.4 Completing Documentation

3.4.1 Complete the MRR form and other documentation as directed in Paragraph 3.6 of SCALE-CMP-007.

3.5 Quarterly Reports

3.5.1 Generate quarterly Configuration Control Lists (CCLs) for program source, object modules, and executables as directed in Paragraph 3.7 of SCALE-CMP-007.