MicroSkyshine® Version 6

MicroSkyshine® Version 6 calculates the photon dose from sky scattered gamma radiation. MicroSkyshine® is used to evaluate conformance with 10 CFR 50, Appendix I ALARA requirements and 40 CFR 190 fuel cycle exposure criteria. Typical applications include scattering from BWR turbine buildings and radwaste storage facilities.

MicroSkyshine®'s analytical method of solution is based on the use of "beam functions" for a point source. This method was developed for NUREG/CR-0781 (May 1979), which resulted from an NRC-sponsored effort. However, MicroSkyshine® reflects the efforts of analysts at Kansas State University, who further improved the method.

Updates to MicroSkyshine® Version 6 include

- Full compatibility Windows® 10 and 11
- Added compatibility for the latest versions of Microsoft® Excel and Word

MicroSkyshine®'s features include

- A variety of silo and wall geometries along with dimensional data in meters, centimeters, feet, or inches.
- The scattering medium is air, and the Berger method is used for calculating buildup in an overhead shield. Any one of seven materials can be selected for this purpose. Built-in library data (radionuclides, attenuation, buildup).
- Source decay can be calculated, and daughters generated.
- As many as twenty energy groups (with an energy range of 100 keV to 10 MeV) may be created; total concentration entries are automatically converted to curies.
- All calculations performed by MicroSkyshine® assume that the silo wall or vertical wall is a perfect shield; that is, radiation through the walls will not be calculated.
- Installation process has been enhanced and is now compatible with Microsoft® System Center Configuration Manager
- Check for Update feature has been added

MicroSkyshine® is compatible with Microsoft Windows® 10 and 11. Complete installation may require up to 30MB of hard disk space.

License Types: Subscription licenses which permit installation as a Single User, Local Area Site License, and Wide Area Site License.

4925 BOONSBORO ROAD #257 • LYNCHBURG, VIRGINIA • 24503 • USA
PHONE: 434.386.8080 • FAX: 434.386.8081
HTTP://WWW.RADIATIONSOFTWARE.COM