

FRMAC ASSESSMENT WORKING GROUP UPDATE

Assessment Working Group Update

INNOVATE. COLLABORATE. DELIVER.

Assessment Manuals available

Vol 1, Assessment Operations – New volume describing CM/FRMAC Assessment Operations

Vol 2, Assessment Methods – being renumbered for reissue, no technical changes

Vol 3, Assessment Pre-Assessed Scenarios – 7 different types of release scenarios, replaces 2010 version

https://www.nnss.gov/pages/programs/frmac/frmac_documentsmanuals.html

Or just google “FRMAC Manuals”!

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Training

- AS-50 is available in recorded form
- AS-100 available in an online self-study (LMS) version
 - <https://snl.matrixlms.com/>
 - Instructions at <https://nirp.sandia.gov> under AS100 Training “FRMAC Training Portal MATRIX Login Instructions”
- Quarterly Continuing Training continues
 - Recordings available at nirp.sandia.gov
 - Will be added to LMS as time allows

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Turbo FRMAC New release soon!

- Implemented a new calculation category for calculating International Atomic Energy Agency (IAEA) Operational Intervention Levels (OILs) 1 and 2.
- Added ICRP 88 fetus dose coefficients to the DCFPAK database for the OIL calculation.
- Added a resuspension factor multiplier input to allow users to reflect physical conditions or impacts of mechanical effects.
- Created a new Transfers Factors panel that allows the user to adjust the transfer factors for individual radionuclides.
- Added the option to select which results to include in the Calculation Report wizard.
- Corrected behavior on Occupancy Factor Panel where changes to Hours Partially in Contaminated Zone were not correctly distributed into the appropriate fields (Absent, Sheltered, Unsheltered).
- Fixed issue where manual occupancy factors became un-editable after running a calculation.
- Added export button to main file menu.

<https://nirp.sandia.gov/Software/TurboFRMAC/TurboFRMAC.aspx>

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NIRP Website Update

<https://nirp.sandia.gov>

The screenshot shows the home page of the Nuclear Incident Response Program (NIRP) website. At the top, there is a navigation bar with the Sandia National Laboratories logo, a search bar, and links for Home, Software, Training, Help, and Contact Us. Below the navigation bar is a dark blue banner with the text "Our Mission" and a brief description of the program's purpose. The main content area is titled "Recent Software Updates" and features four software products in a 2x2 grid:

- Turbo FRMAC**: Version: 11.3.1, Last Release: Sep 4, 2023. Description: "The Turbo FRMAC (TF) software program is the software implementation of the science and methodologies utilized by the Federal Radiological Monitoring and Assessment Center (FRMAC). These methods are documented in the FRMAC Assessment Manual and are utilized in the event of the intentional or accidental..."
- SHARC**: Version: 10.5.0, Last Release: Sep 4, 2023. Description: "SHARC (Specialized Hazard Assessment Response Capability) is used to simulate the release of radioactivity from a nuclear weapon via either conventional detonation or by non-explosive techniques. Each scenario is associated with an event that describes when and where the material was released and each event..."
- Mixture Manager**: Version: 4.0.0, Last Release: Jun 5, 2023. Description: "Mixture Manager (MM) allows users to create and manage radionuclides mixtures for future use across applications."
- Radionuclide Viewer**: Version: 4.4.0, Last Release: Jun 5, 2023. Description: "Radionuclide Viewer (RV) is an application for viewing the DCFPAK radiological data from Oakridge National Laboratories."

Each software entry includes a "LEARN MORE" button.

The screenshot shows the "Training" page of the NIRP website. It features a grid of training modules, each with a title, description, last updated date, and a "VIEW TRAINING" button. The modules are:

- Assessment Scientist Continuing Training**: Needs description, Last Updated: Mar 31, 2023. Includes icons for 33, 4, and 0.
- AS300 Training**: Needs description, Last Updated: Mar 31, 2015. Includes icons for 1, 0, and 0.
- AS100 Training**: Needs description, Last Updated: Mar 22, 2021. Includes icons for 5, 0, and 1.
- AS50 Training**: Needs description, Last Updated: Jul 31, 2022. Includes icons for 0, 0, and 2.
- Assessment Work Group**: Needs description, Last Updated: Jul 17, 2019. Includes icons for 5, 0, and 0.