

## FRMAC ASSESSMENT WORKING GROUP UPDATE

# Assessment Working Group Update

INNOVATE. COLLABORATE. DELIVER.

## Assessment Manuals available

**Vol 1, Assessment Operations** – CM/FRMAC Assessment Operations

**Vol 2, Assessment Methods** – Technical Methods

**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](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](https://nirp.sandia.gov)
- Will be added to LMS as time allows

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## **Turbo FRMAC 12.1.0 Released 1/23/25!**

- Created an export top dose contributors feature in the Dose Roll Up Tool. This feature reduces a mixture to a set of radionuclides that contribute a percentage of dose for selected time phases. The percentage, dose type, and time phases are user-defined.
- Implemented OIL corrections for radionuclides with non-standard forms for inhalation and ingestion.
- Fixed an error where meat and milk transfer factor references did not appear. Also fixed an issue maintaining user-entered values when the user toggles between user defined transfer factors and provided transfer factors.
- Fixed an issue with saving and loading radionuclide group transfer factor values.
- Implemented option to only select and export total dose in the Excel Total Dose Export Tool.
- Increased the input size in the Paste Mixture From Tool to support all unique radionuclides.
- Updates to Java and third party libraries

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

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## NIRP Website Update (Now Live!)

<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. The page features a grid of training modules, each with a title, a "Needs description" link, a "Last Updated" date, and a "VIEW TRAINING" button. The modules are:

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