

Data Viewing Software

Wednesday, June 21, 2023 11:53 AM (1 minute)

For the Source Term Analysis of Xenon (STAX) project an experimental network to measure releases of radioxenon isotopes at the stack of nuclear facilities is being set up. The data are transmitted to a central server, where authorized users can retrieve raw data from the STAX server or can view the data via a web browser. In this presentation an overview on the various interactive data viewing tools of the STAX software is given. The STAX software provides a dashboard overview of the operational status of the network and chart interfaces to view state of health data and isotope release data. Isotope release data can be viewed as time series of emissions or as isotopic ratio plots. For each individual data point, raw data can be downloaded from the data chart and the corresponding gamma spectrum can be viewed. Using results from atmospheric transport modelling (ATM), either in forward or backward mode, concentrations at International Monitoring System (IMS) radionuclide stations can be simulated in order to estimate the impact of emitting facilities on the concentrations measured at IMS stations.

E-mail

matthiasauer@isti.com

Promotional text

This presentation contributes to the better understanding of noble gas background concentrations.

Oral preference format

in-person

Primary author: AUER, Matthias (Instrumental Software Technologies, Inc. (ISTI))

Co-authors: FRECHETTE, Kevin (Instrumental Software Technologies, Inc. (ISTI)); RIZESCU, Mihaela (Instrumental Software Technologies, Inc. (ISTI)); HELLMAN, Sidney (Instrumental Software Technologies, Inc.)

Presenter: AUER, Matthias (Instrumental Software Technologies, Inc. (ISTI))

Session Classification: Lightning talks: P2.2, P3.2, P3.6

Track Classification: Theme 3. Monitoring and On-Site Inspection Technologies and Techniques: T3.6
Analysis of Radionuclide Monitoring Data