

Atmospheric Transport Model Applied to the Design of Medical Isotope Production Facilities

In this work, Atmospheric Transport Models (ATM) are presented as a strategic design tool for the mitigation of radioxenon release to the atmosphere and to evaluate the impact of others radionuclide emissions, like: I-131, I-133, Kr-85, Kr-85M, Kr-87 and Kr-88, among others nuclides. The design of Medical Isotope Production Facilities (MIPF), includes safety and security protection radiological analysis, either inside and outside the installations, and studies of gaseous effluent release monitoring. Related to effluent release to the atmosphere, INVAP has relevant experience on AT Models applications to MIPF's, using Gaussian models, on different stages of the design on nuclear facilities, in normal operation and accidental scenarios.

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