

Radiological Emergency Assessment Modul

B. Breznik (2), P. Mlakar (1), M. Z. Božnar (1)

(1) AMES d.o.o., Ljubljana, Slovenia, (Marija.Boznar@ames.si / Phone: +386 1-3657087), (2) Krško Nuclear Power Plant, Krško, Slovenia, (Borut.Breznik@nek.si / Phone: +386 7-4802287)

Environmental release modelling is used for radioactive contamination dispersion assessment within computerized system for early dose projection. Dose projection procedures and software are supplied with meteorological modul results and nuclear power plant (NPP) source term assessment. A real time operating system is developed for support a decision making procedure in case of emergency. Besides plant monitoring capabilities, its main features are dose projection software together with real time calculations of reactor core source term and the connection to the advanced modelling of atmosperic dispersion. The software provides modelling of a potential release to the environment and calculates radiation doses within a distance of few kilometers around the plant.