INVESTIGATION OF UNCERTAINTIES AT THE OCCURRENCE CALCULATION OF THE GENERAL ENVIRONMENTAL EMERGENCY

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Due to recommendation of the International Atomic Energy Agency general environmental emergency in the vicinity of a nuclear installation should be announced if the gamma-dose rate due to contamination of the ground surface exceeds 1 mSv/h at 1 m above the ground.
Our paper deals with investigations uncertainties of several parameters affecting occurrence of general emergency at a given release, e.g.:
nuclide composition of the release,
circumstances of the release (release point, building wake effect),
position of the monitoring points,
meteorological parameters (atmospheric stability, wind speed, precipitation),
Final goal of the work is elaboration of methods to estimate uncertainties at the calculation of the general emergency situation.