## REAL TIME DECISION SUPPORT SYSTEM FOR NUCLEAR EMERGENCY FOR OPERATIONAL USE IN POLAND

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In case of a nuclear emergency a number of important decisions have to be undertaken by crisis management team basing on the currently available information, coming from radiological and meteorological real-time monitoring networks and taking into account predictions of development of radiological situation. Typically this information is not precise and may change in time rapidly. In order to support process of decision making appropriate uncertainties should be considered. These uncertainties come mainly from the following sources of information:

- · source term,
- prediction of meteorological fields,
- · dose assessment.

Supporting process of decision making means also taking into account possible benefits and

disadvantages of undertaken decisions, preferences of decisions' makers, impact on sociological and economical situation and, first of all, availability of technical means for crisis management team. Some techniques based on Bayesian approach are proposed as a basis for implementation of decision support system in case of a nuclear emergency in Poland [1]. Such an approach in natural way handles with all types of uncertainties mentioned above.

## REFERENCES:

[1]. M. Borysiewicz, S. Potempski: Real Time Decision Support System for Nuclear Emergency for Operational Use in Poland, to appear in Proc. of CONSIM 96 "Crisis Management", National Defence Academy.