

EMRAS Theme 2 - Remediation of Sites with Radioactive Residues
Urban Remediation Working Group
21-23 April 2004, Vienna

During its second meeting, the Urban Remediation Working Group distributed and discussed an initial draft modelling scenario. This scenario is based on Chernobyl fallout data for three Ukrainian towns that have different characteristics and present a variety of exposure concerns. In particular, the Working Group identified the endpoints to be modelled, both for model intercomparison (all endpoints) and for comparison with test data (to the extent that test data are available). Table 1 summarizes the situations and endpoints to be modelled. The Working Group also discussed what information was still needed for the scenario, and possibilities for additional modelling scenarios.

Table 1. Summary of modeling scenario for the Urban Remediation Working Group.

Town	Key characteristics	Locations for modeling exercise	Input information	Modeling endpoints
Pripyat	Evacuated soon after Chernobyl accident; essentially uninhabited since then	District #4 (with decontamination, young vegetation, 800 people in 1989-1994, lots of 9-story buildings) District #1 (without decontamination, similar buildings, older vegetation, no inhabitants)	Measurements from May 1986 Information about decontamination efforts (in some areas; 1986-1988)	Dose rates and contaminant distributions, with and without remediation, for 1986 (June, July, August, September, 4 th quarter) and annually for 1987-1999
Polesskoe	Remained inhabited after Chernobyl accident	Volya Street First of May Street	1986 dose rates 1988 information for individual buildings 1989 radionuclide distributions in soil (soil profile) Information about remediation activities	Dose rates and contaminant distributions, with and without remediation, annually for 1990-1998
Slavutich	Built after accident on contaminated land	A district built in 1987 with mixed soil and decontamination after the buildings were built Other districts, with decontamination before the buildings were built (both have multi-story residential areas and 1-2 story buildings with kitchen gardens)	Initial contamination of area γ radionuclides in soil and air Information types of buildings, dates of construction Information about major decontamination efforts (1988-1990) Chronology or timeline Information on surrounding areas with no decontamination	Dose rates and contaminant distributions, by season or part of year for 1988-1990 (during decontamination) and annually for 1990-1999 (after decontamination)