

# THE ASSESSMENT OF THE THERMAL PROCESSES INFLUENCE ON LIQUID RADIOACTIVE WASTE COMPONENTS TRANSPORT AT THE "SEVERNY" POLYGON

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Severny liquid radioactive waste injection polygon 3D model developed in the Nuclear Safety Institute of the RAS is enhanced by thermal processes. Computations are performed using integral software package GeRa. The model includes groundwater flow in unconfined conditions, radionuclide transport in dual porosity media with sorption and radioactive decay, heat transport with decay heat generation, thermal convection. Subsurface media heating is investigated. Thermal processes influence on groundwater flow and radionuclide transport is considered.