The dismantling work of the Multipurpose Research Reactor (MR) reactor was carried out since 2008. This work is performed according to the program of decommissioning approved by government authorities in frames of the federal Target Program “Nuclear and Radiation Safety for 2008 and for the period until 2015”. According to the program of decommissioning, MR reactor, dismantling work of the equipment in process compartment and MR reactor equipment was carried out in 2013-2014. First part of the work (decommissioning of control and protection system) was finished from active zone of reactor.

Initially exposure dose rate (EDR) in reactor hall was 30 mSv/h. After water level lowering in nuclear reactor pond on 4 meters it was lowered to 170 mSv/h, which is 5.7 times. The exposure dose rate above the reactor pond after decreasing water level on 4 meters was 200 µSv/h above the center of pond.

To reduce exposure dose rate after decreasing water level in reactor pond on 4 meters the pond was characterized by high gamma ray background. This pond was used for storage of movable fuel assembly. Therefore, data of radionuclide composition of deposits on walls have effective character, and the analysis of the obtained data was show that qualitative and quantitative radionuclide compositions of deposits on walls of the reactor MR have effective character.