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Decontamination of Spent Ion-Exchange Resins in Ultrasonic Field

The method of ultrasonic decontamination of radioactive ion-exchange resins is considered by the example of spent ion-exchange resins from the solid radioactive waste storage facility of the IR-100 research reactor.

The specific features of ultrasonic decontamination and the influence of the main operational factors on its effectiveness are described. Operational parameters of the ultrasonic disperser are presented. The results of the experiments on ultrasonic decontamination of spent IER from the IR-100 SRWSF are provided.

Keywords: ion-exchange resins (IER); nuclear power plant (NPP); radioactive waste (RAW); solid radioactive waste (SRW); ultrasonic decontamination (USD); solid radioactive waste storage facility (SRWSF).