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Decontamination of radioactive concrete in nuclear facilities by chemical separation method.

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Europium and cobalt etc., contained in the biological shield concrete, are made a radiation with the neutron during the nuclear power plant and the accelerator facilities in operation. At the end of operation, biological shield concrete may be considered as radioactive wastes due to these radioactive nuclides. However, it is thought europium and cobalt content in the biological shield concrete is very little, thus trace amount of the radionuclide determined entire biological shield concrete as radio waste and the handling cost is severe. Therefore, the introduction of chemical processing, and the possibility of a significant amount of waste volume reduction had been found.

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