13. DYNAMIC OF THE CONTENT OF RADIONUCLIDES IN WATER OF COOLING-POND OF CHERNOBYL NPP (1978 - 2004)

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Dynamic of the artificial radionuclides content of in water of the cooling-pond of ChNPP was studied starting from 1978 till 2004. The total content of radionuclides was founded within the limits of 0,005 - 0,05 Bq/l in the period of 1978 - 1984. After the accident in 1986 the total content of radionuclides in water amounted to $3,7 \cdot 10^5$ Bq/l. The main contribution in radionuclides' pollution of water introduces 137 Cs and 90 Sr from the end of 1986. Their content is sharply decreased till 1990 - 1992, and then the decrease occurs more smoothly. Seasonal dynamic of the content of 137 Cs is revealed. In by autumn its quantity in water is increased. The abnormal low relation 90 Sr/ 137 Cs in water of cooling-pond on comparison with other reservoirs 30-km Zone is registered during 1987 - 2004. The content of radionuclides in water of the cooling-pond of ChNPP in 2004 approximately in 100 times exceeds the levels of content before the accident.