

Figure 1: Improved setup at the Savannah River power plant with a separation between target $(H_2O + CdCl_2)$ and detector consisting of liquid scintillator: (left) the two gammas from the annihilation of the positron are detected in the external tanks filled with liquid scintillator (I and II in the picture); (right) after diffusion in the target, the neutron is captured on Cd, which releases gammas that are also detected in the detectors.

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