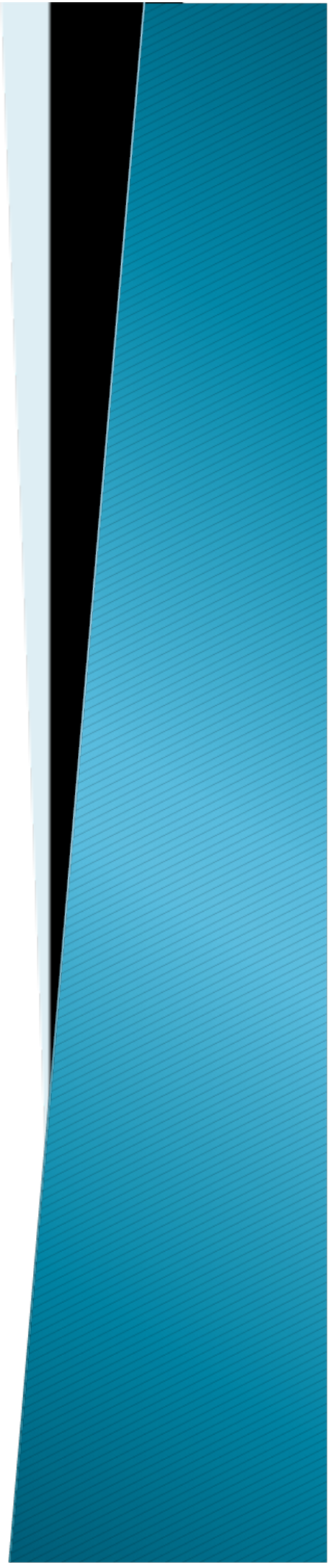


ASSESSMENT OF INDIVIDUAL RISK CRITERIA FOR THE DISPOSAL OF RADIOACTIVE WASTE

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Quantitative approaches to environmental risk analysis

- $R = D \cdot P$

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- where R-ecological risk, D-damage, P-probability of the event.



The risk R for an individual or a critical group

- $R = P(D) p(\text{eff}/D)$,

- where P (D) is the probability of an event or other changes in the environment creating a dose from D to D + dD for an individual representing a critical group, and
- p (eff / D) is the probability of a serious health problem for a given individual or his descendants from the received dose D .

Figure 1. Possible fluctuations in the probability level of a destructive event as a function of time elapsed after the disposal of radioactive waste

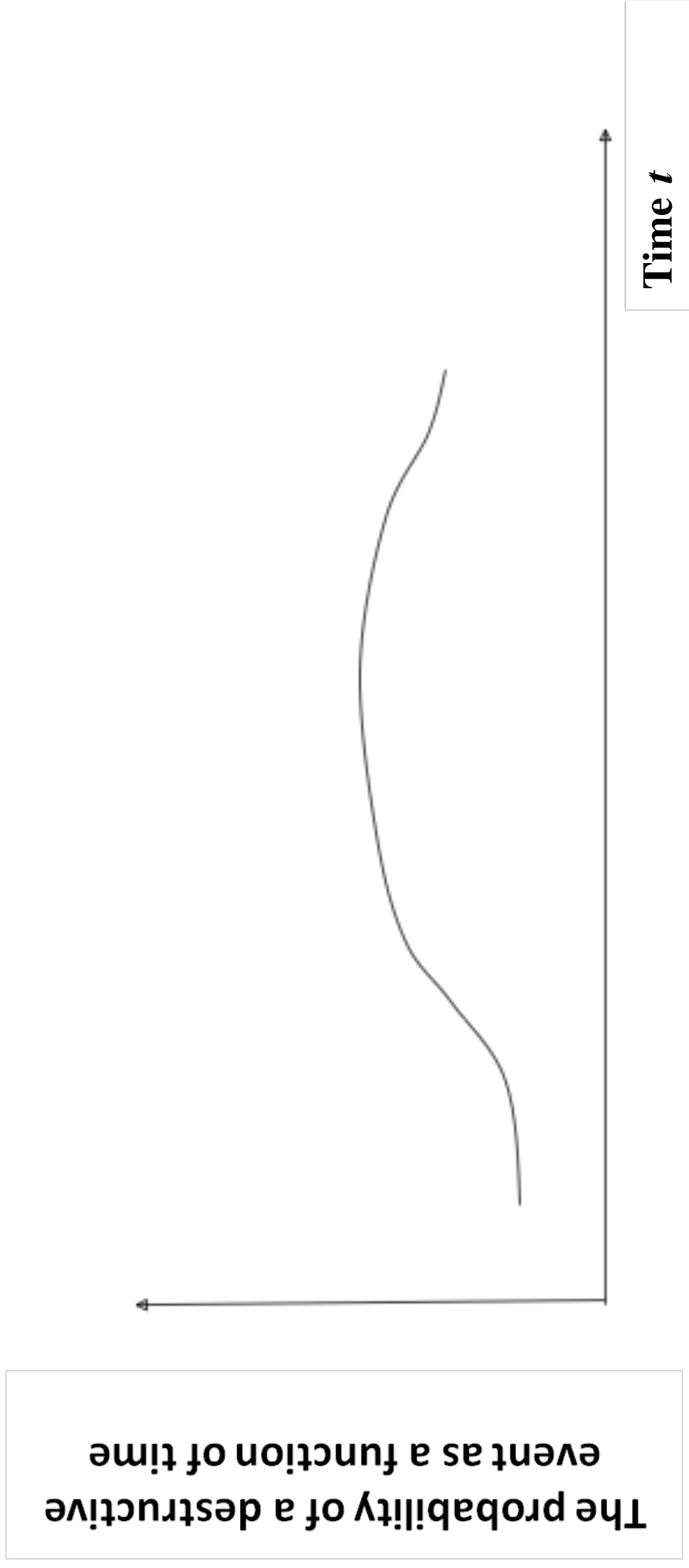


Figure 2. Individual dose rate associated with the event that led to the destruction of the storage facility that took place at two different points in time after the disposal of radioactive waste

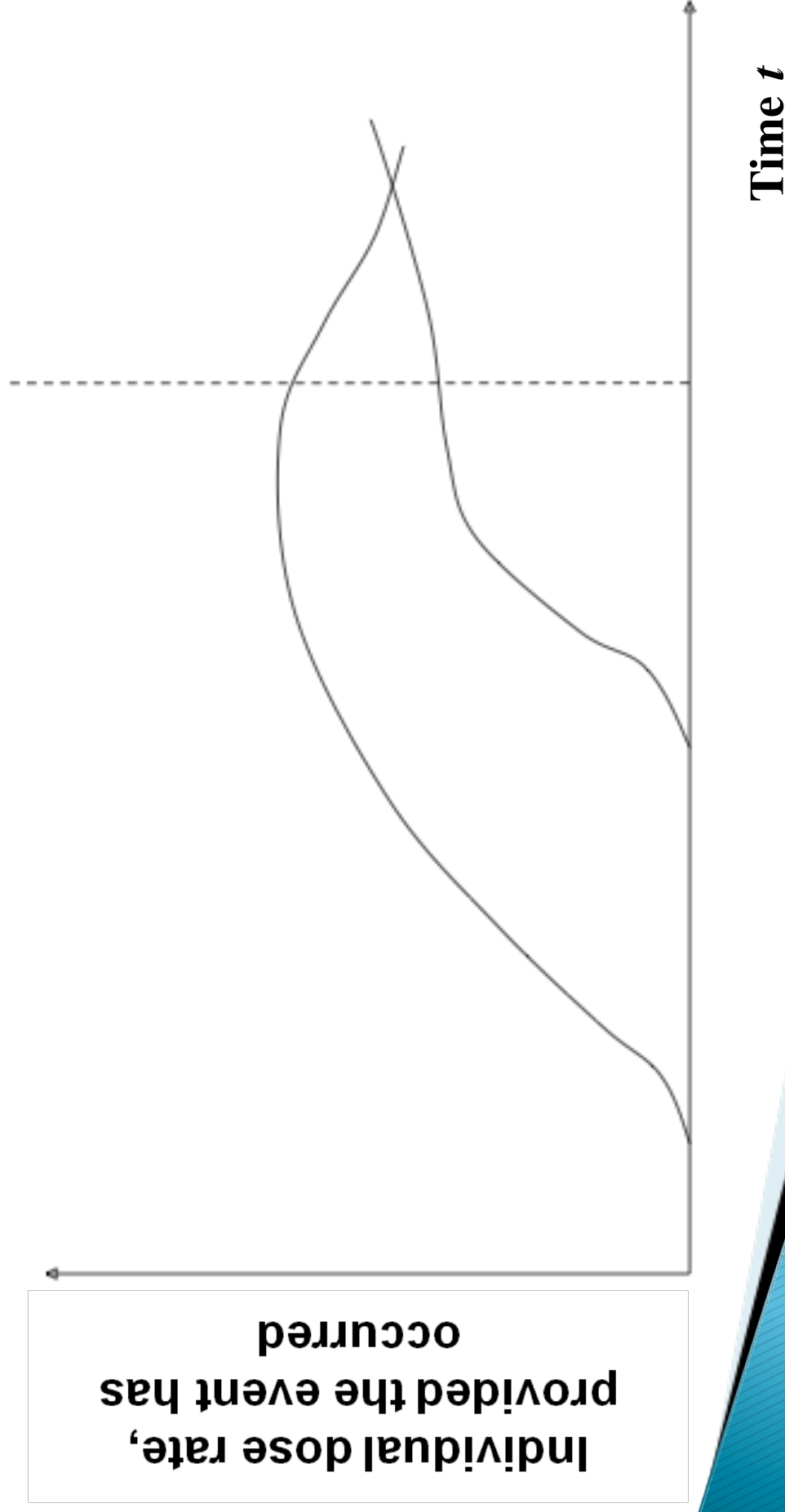


Figure 3. Curve of the criterion based on the limitation of annual risk at the level of 10^{-5} from all events

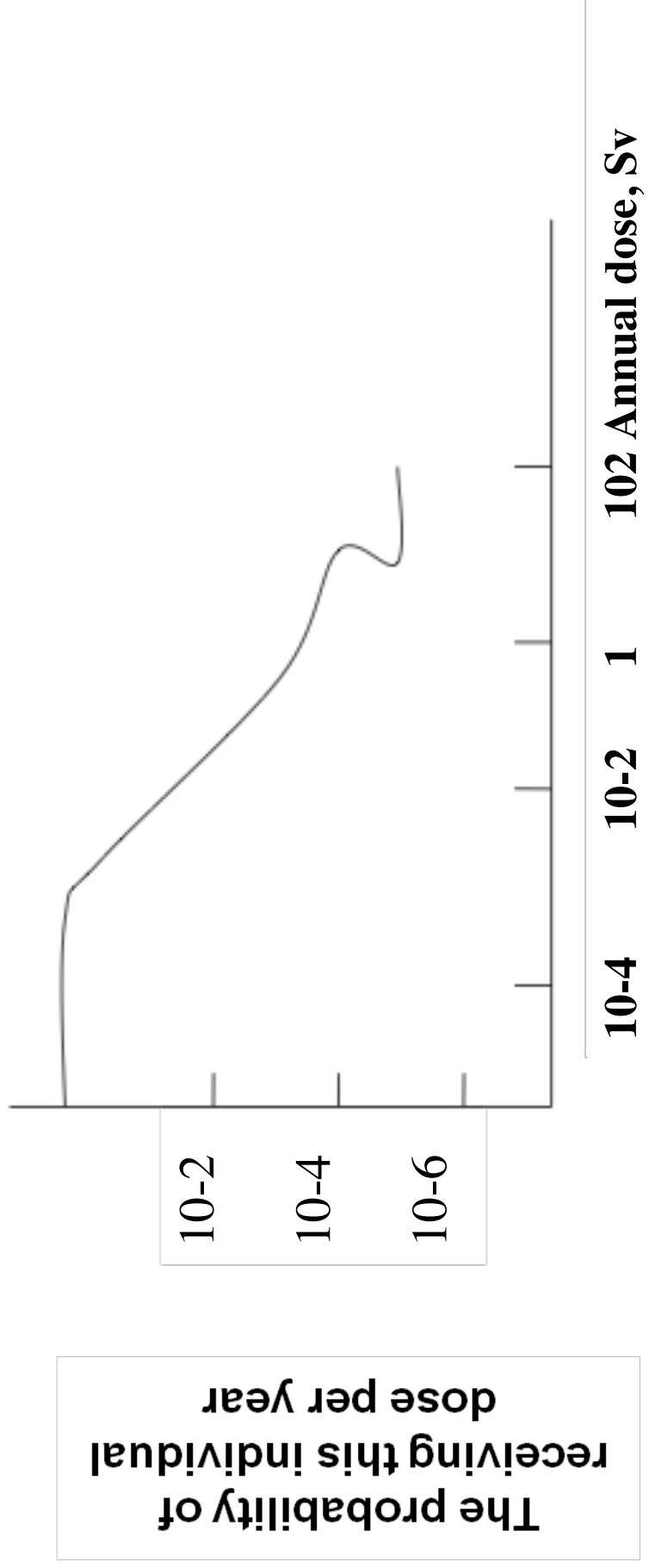


Figure 4. Curve of the criterion illustrating the type of change necessary to achieve compliance with the upper limit of risk

