CLAIMS

WHAT IS CLAIMED IS:

1. A method for reducing an amount of radioactivity of a liquid including a radioactive substance attached to a target to be cleaned, the method comprising:

dissolving hydrogen in the liquid to produce hydrogen water,

wherein after the radioactive substance is in contact with the hydrogen water, and

by placing a cleaning liquid that consists of the hydrogen water after cleaning for a preset time, decay of the radioactive substance in the cleaning water is accelerated.

2. The method according to claim 1, wherein the hydrogen is dissolved in the liquid by mixing a substance that includes the radioactive substance with the hydrogen water that includes 1.0 ppm or more of hydrogen.

3. The method according to claim 1 or 2, wherein the radioactive substance includes radioactive cesium.