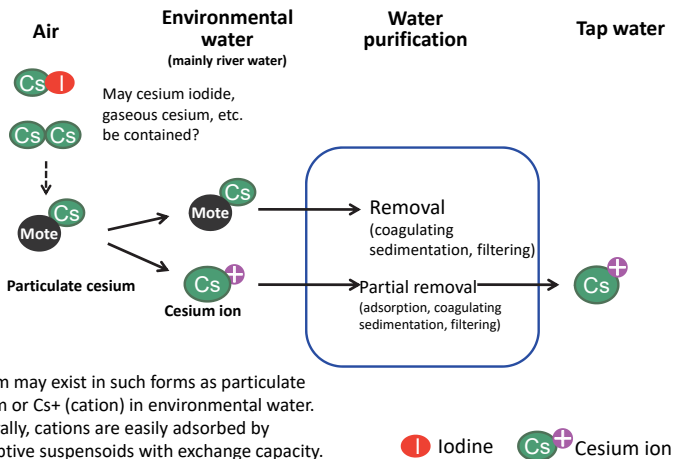


Behavior of Radioactive Cesium

Conceptual Diagram of Behavior of Radioactive Cesium



Cesium may exist in such forms as particulate cesium or Cs+ (cation) in environmental water. Generally, cations are easily adsorbed by adsorptive suspensoids with exchange capacity.

Prepared based on the reference material for the 12th Health Sciences Council's Committee on Living Environment and Water Supply in March 2012

Radioactive cesium discharged due to the accident at Tokyo Electric Power Company (TEPCO)'s Fukushima Daiichi NPS consists of Cs-134 and Cs-137 in equal proportion (1:1) and has also been detected at the same rate in the environment. Radioactive cesium was in the form of particles or gas immediately after discharge from the NPS, but it is considered to have fallen down onto the ground surface and to have been adsorbed into soil and particles, etc. In water, radioactive cesium is adsorbed into particles and tends to behave in the same manner as soil or other suspensoids, and therefore, is highly likely to be reduced by removing suspensoids in water.

Included in this reference material on March 31, 2013

Updated on January 18, 2016