

Q&A on the discharge of ALPS treated water into the sea

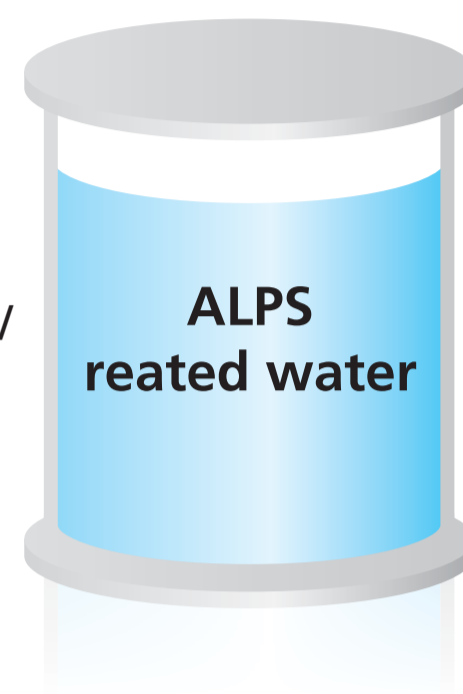
Q1 Why is the discharge of ALPS treated water into the sea needed?

To steadily reduce the risk associated with radioactive materials, there is a need to remove nuclear fuel materials, such as spent fuel and fuel debris, to a safer place. To secure a place for necessary facilities and reduce higher risk, the government has set the basic policy to conduct controlled discharge of ALPS treated water into the sea.

Controlled water discharges into the sea are normally conducted at nuclear facilities in the world, complying with the regulatory standards.

● Storage tanks are approaching full capacity

92%
1,260,497m³/
1,370,000m³
(As of May 20,2021)

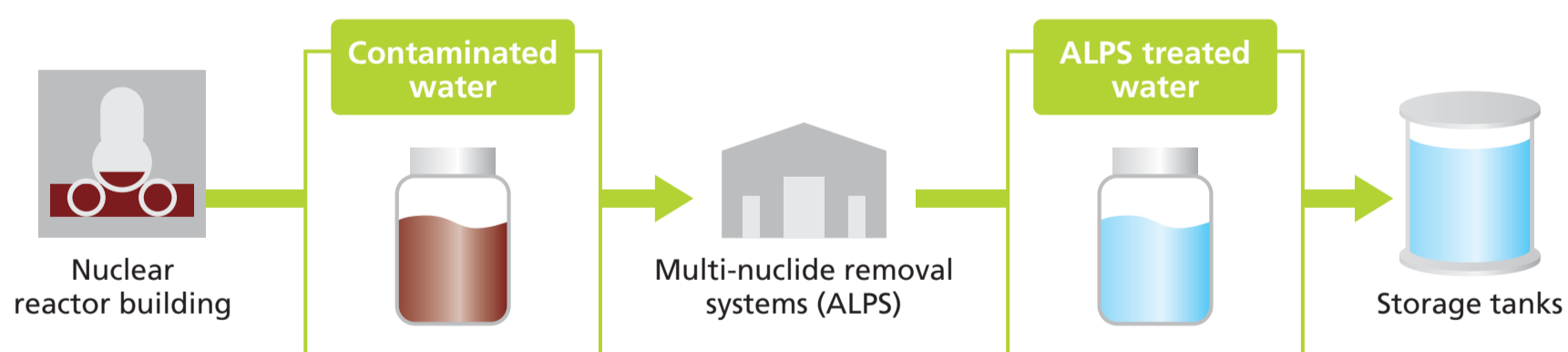


Q2 Is discharging the ALPS treated water into the ocean considered safe?

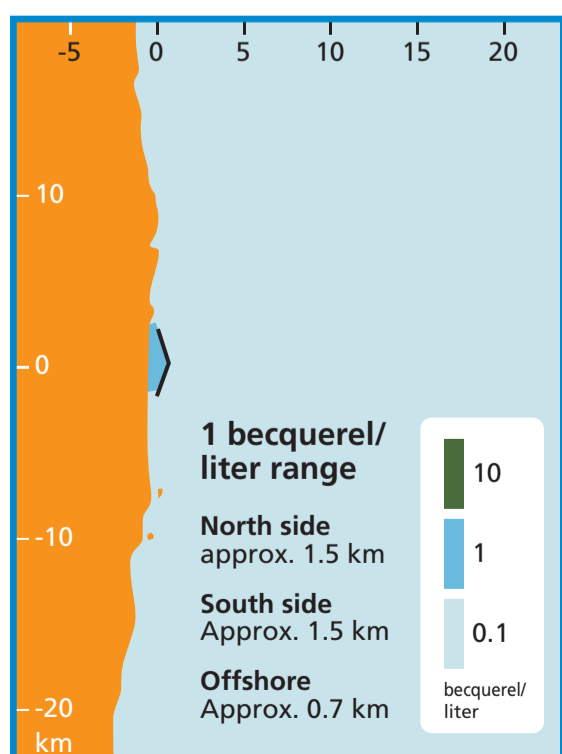
Yes, the controlled discharge of the ALPS treated water will be conducted so that the discharge would not affect the human body or the environment. Assessment result shows that radiological impact of the discharge is negligible, which is less than 1/100,000 of annual natural radiation exposure in Japan. According to the diffusion simulation, the concentration of tritium will be almost the same as the level of the natural sea water.

To ensure the safety, discharging into the sea at the FDNPS will be monitored/reviewed by third parties such as International Atomic Energy Agency (IAEA).

● Structure of Main Treatment Facility



● Diffusion simulation



Discharged amount:
22 trillion becquerels/year

