

Plan for repurposing Strontium-treated water tanks for ALPS-treated water tanks

January 30, 2020



Tokyo Electric Power Company Holdings, Inc.

4-1. Plan for repurposing Strontium-treated water tanks for ALPS-treated water tanks

■ Repurposing plan

- In order to secure 1.37million m³ of tank storage capacity by the end of December, 2020, we plan to drain Strontium-treated (Sr-treated) water tanks and repurpose them for ALPS-treated water with the aim of beginning the transfer of ALPS-treated water around March 2020. Before ALPS-treated water is transferred, the remaining Sr-treated water and sludge at the bottom will be removed and the bottom of tanks will be cleaned as a measure to prevent the generation of hydrogen sulfide like we experienced in October, 2018.

(Repurposed tanks: 93 tanks, approx. 97,000m³)

- In FY2015, Sr-treated water tanks were repurposed for ALPS-treated water, however ALPS-treated water was transferred into the tanks without removing the remaining Sr-treated water and sludge.

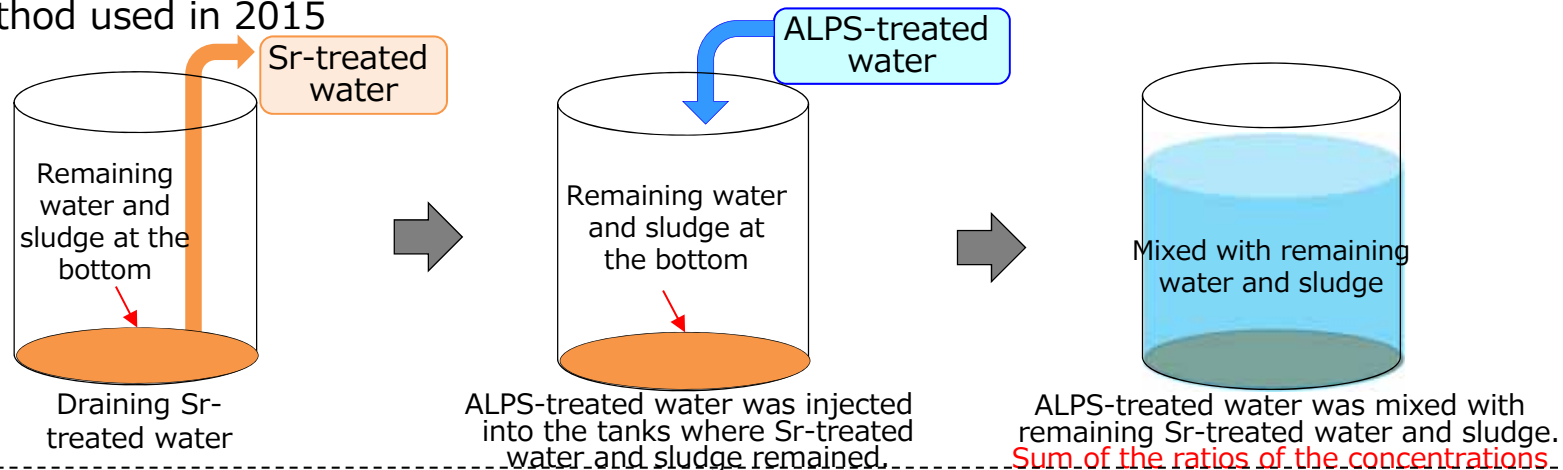
(※1 ALPS-treated water was transferred into tanks without draining the remaining water at the bottom of the tanks because the priority was to secure storage capacity. Therefore, the sum of the ratios of the concentrations required by law for water in tanks exceeded 100.)

Plan for repurposing Sr-treated water tanks at the end of December, 2020

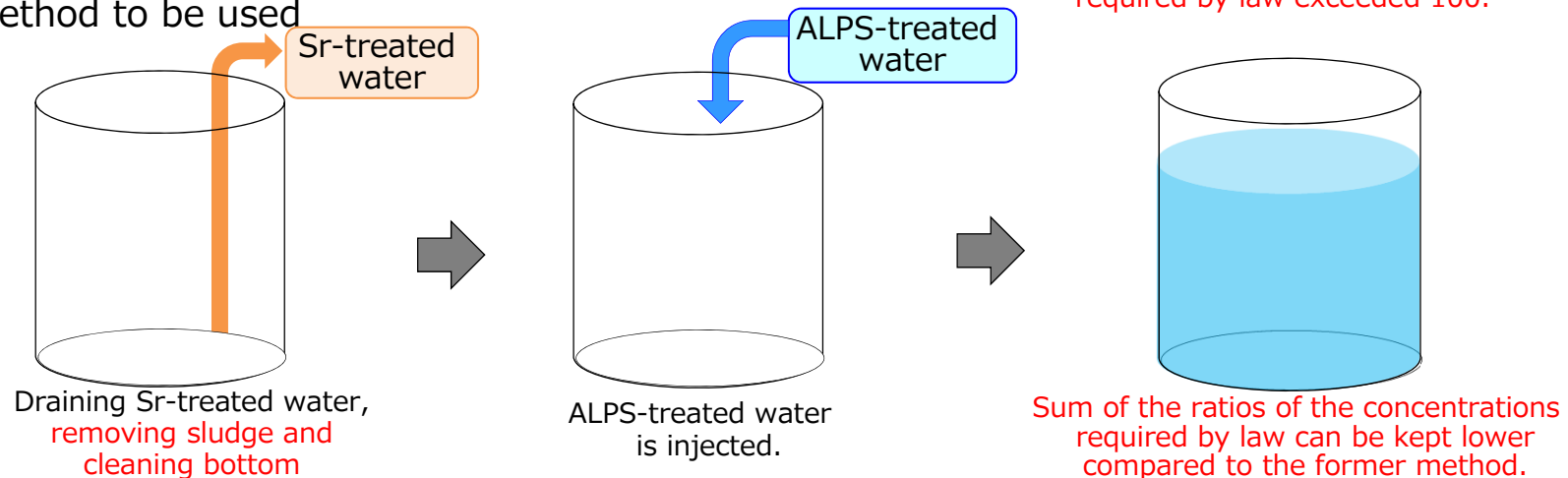
Water being currently stored	Purpose and number of tanks		Amount of water at the end of 2020	Storage capacity at the end of 2020
	Purpose	Number		
Strontium-treated water	Repurposed for ALPS-treated water	93	ALPS-treated water	Approx. 97,000m ³
	Continued Sr-treated water storage	24	Strontium-treated water	Approx. 25,000m ³

4-2. Repurposing of tanks for Strontium-treated water

Method used in 2015



Method to be used



- Sludge will be removed and the bottoms of tanks will be cleaned before injecting ALPS-treated water. The sum of the ratios of the concentrations required by law are expected to be lower than when the tanks were repurposed previously. However, it is expected to be higher than concentrations at the ALPS outlet due to radioactive materials that remain in the tanks. The impact on the ratios of the concentrations required by law will be checked after ALPS-treated water is injected.
- When discharging ALPS-treated water into the environment, water for which the sum of the ratios of the concentrations required by law is confirmed by actual measurement to exceed 1 will be subject to secondary treatment.

Reference: Radiation concentrations measured at the ALPS outlet **TEPCO**

- ALPS equipment is operated to keep, as much as possible, the sum of the ratios of concentrations required by law less than 1 for the radiation concentrations measured at the ALPS outlet

