

- Transfer of ALPS treated water from the K1 area group C/D and G4 south area group C to the measurement/confirmation facility group C was completed on June 7, 2024, in preparation for the fourth discharge in FY2024. Circulation/agitation commenced on June 14, and samples were taken on June 21. The collected samples are currently being analyzed.

<Announced by August 4>

- The analysis results from sampled specimens have confirmed that the water in tank group C meets discharge criteria.
 - ① Nuclides to be measured and assessed (30 nuclides):
The sum of the ratios of the concentration of each radionuclide to the regulatory concentration: 0.12 (confirmed to be less than 1)
 - In light of the our FY2023 investigative analysis results, based on the flowchart stated on implementation plan approved by the Nuclear Regulatory Agency (NRA), we have added cadmium 113m to the nuclides to be measured/assessed starting from the fourth sea discharge of ALPS treated water in FY2024 (announced on August 1)
 - The cadmium 113m concentrations are below the lower limit of detection
 - ① Tritium: 200,000 Bq/liter (confirmed to be less than 1 million Bq/liter)
 - ② Nuclides voluntarily checked to ensure that they are not significantly present (38 nuclides):
No significant concentrations found of any of the nuclides
 - ③ General water quality (voluntary check to confirm that there are no unusual water quality) (44 criteria): Criteria values have been met
- Measurements taken by the external agency* (Kaken) show the same results and confirm that the water in tank group C meets discharge criteria.
 - * Measurements taken of ① Nuclides to be measured and assessed (30 nuclides); ② Tritium; and,
③ Nuclides voluntarily checked to ensure that they are not significantly present (38 nuclides).
- Based on these results, we are planning to commence the discharge of ALPS treated water from the measurement/confirmation facility group C (fourth discharge in FY2024) into the sea on August 7. Going forward, we will remain vigilant to ensure the safe and stable discharge of ALPS treated water.

[Reference] Treated Water Portal Site Webpage for "Measurement/Confirmation Facility Conditions"

- Status of Measurement/confirmation facility and the analysis results for ALPS treated water in tank groups A,B, and C are displayed (tritium concentration and the sum of the ratios of the concentration of each radionuclide to the regulatory concentration limit).

Screen image of

"ALPS treated water Conditions of Discharging into the Sea"



Screen image of

"Measurement/Confirmation Facility Conditions"

Measurement/Confirmation Facility Conditions

The measurement/confirmation facility is split into three groups of 10 tanks (Total capacity of 10 tanks: Approximately 10,000m³) with each of the groups used on a rotating basis as receiving tanks, measurement/confirmation tanks, and discharge tanks.

ALPS treated water measurement results (May 15, 2024) → Confirmed that discharge criteria have been met.

Analysis results:
The sum of the ratios of the concentration of each radionuclide to the regulatory concentration limit

0.17

The concentration of radioactive substances excluding tritium.

The sum of the ratios of the concentration of each radionuclide to the < regulatory standards > **1**

concentration: 0.17

*Nuclides that are voluntarily checked to ensure that they are not significantly present were confirmed not to be significantly present for all target nuclides.

Tritium concentration:
17×10⁴ Bq/L

Confirmed to be less than 1 million Bq/L.

① The sum of the ratios of the concentration of each radionuclide to the regulatory concentration : 1

② ALPS treated water with high tritium concentration is to be discharged at a later stage of the discharge period by considering the natural decay of radioactivity over time. This is indicated as the upper limit of 1 million Bq/L in the implementation plan (to be discharged starting from the water with lower tritium concentration).

③ Pre-dilution ratio of tritium concentration to the regulatory concentration limit(60,000Bq/L) is 2.83, but the regulatory standard is met by diluting the tritium with large amount of seawater when discharging into the sea. (When diluted 740 times with seawater, ratio of tritium concentration to the regulatory concentration limit drops to 0.0038)

Measurement results from external agency designated by TEPCO (Kaken)

▶ Tritium concentration: One hundred and seventy thousand Bq/L

▶ The sum of the ratios of the concentration of each radionuclide to the regulatory concentration excluding tritium: 0.16

④ Click here for more detailed data

■ Treated Water Portal Site Measurement/Confirmation Facility Conditions

<https://www.tepco.co.jp/en/decommission/progress/watertreatment/measurementfacility/index-e.html>

