

Fukushima Daiichi Nuclear Power Station

Analysis Results of ALPS Treated Water

Sampled from the Measurement/Confirmation Facility Tank Group C

< Reference document >
A p r i l 1 7 , 2 0 2 4
Tokyo Electric Power Company Holdings, Inc.
Fukushima Daiichi Decontamination &
Decommissioning Engineering Company

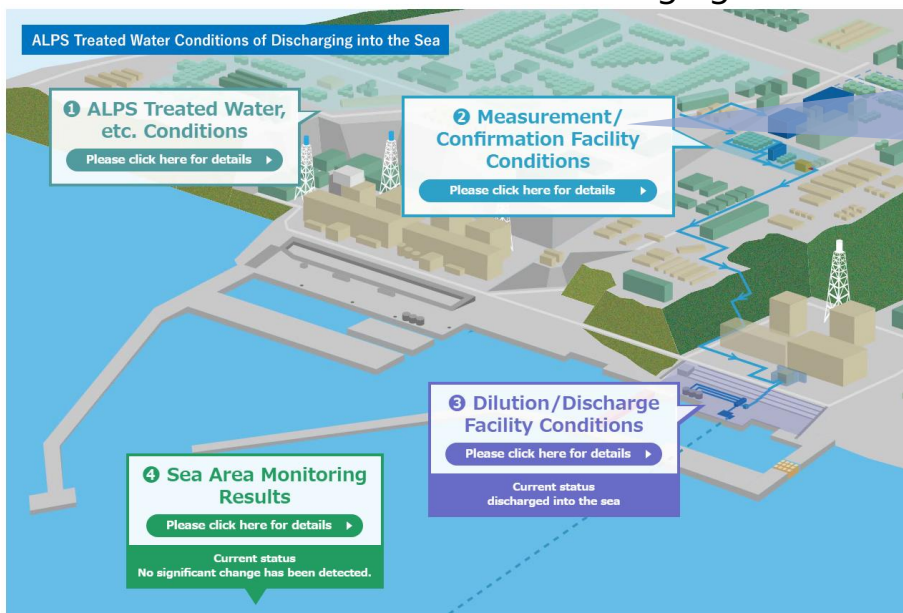
- Transfer of ALPS treated water from the K3 area group A/B and J4 area group L to the measurement/confirmation facility group C was completed on February 16, 2024, in preparation for the first discharge in FY2024. Circulation/agitation commenced on February 22, and samples were taken on February 29. The collected samples are currently being analyzed.
- The first discharge in FY2024 is scheduled to take place between April and May, and will commence as soon as the analysis results are obtained. <Announced by March 28>
- 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 (29 nuclides):
The sum of the ratios of the concentration of each radionuclide to the regulatory concentration: 0.31 (confirmed to be less than 1)
 - ② Tritium: 190,000 Bq/liter (confirmed to be less than 1 million Bq/liter)
 - ③ Nuclides voluntarily checked to ensure that they are not significantly present (39 nuclides):
No significant concentrations found of any of the nuclides
 - ④ 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 agencies* (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 (29 nuclides); ② Tritium; and, ③ Nuclides voluntarily checked to ensure that they are not significantly present (39 nuclides).
- Based on these results, we are planning to commence the discharge of ALPS treated water from the measurement/confirmation facility group C (first discharge in FY2024) into the sea on April 19. We will continue to engage in this process with the utmost vigilance to ensure that there are no unintentional discharge of ALPS treated water into the sea.

[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 (February 26, 2024) ⇒ Confirmed that discharge criteria have been met.

The concentration of radioactive substances excluding tritium. The sum of the ratios of the concentration of each radionuclide to the regulatory concentration: **0.34** < Regulatory standards **1**

Tritium concentration:
17 × 10⁴ Bq/L
Confirmed to be less than 1 million Bq/L.

Click here for more detailed data

Click here for analysis results from third parties (Japan Atomic Energy Agency)

■ Treated Water Portal Site Measurement/Confirmation Facility Conditions

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

