

Fukushima Daiichi Nuclear Power Station

Analysis Results and the Scheduled Date of Commencement for the Fifth Discharge in FY2025 of ALPS Treated Water into the Sea

- Transfer of ALPS treated water from G5 area group A/B to measurement/confirmation facility tank group C was completed on August 30, 2025, in preparation for the fifth discharge of FY2025. Circulation/agitation commenced on September 5, 2025 and samples were taken on September 12, 2025.

< Announced by September 25, 2025 >

- The analysis results from sampled specimens have confirmed that the water in tank group C meets discharge criteria.

Analysis items		Analysis results
①	Nuclides to be measured and assessed (29 nuclides)	The sum of the ratios of the concentration of each radionuclide to the regulatory concentration「0.14」 (Confirmed to be less than 1)
②	Tritium	250,000 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 (44 criteria)	Criteria values have been met (Voluntary check to confirm that there are no unusual water quality)

- Measurements taken by the external agency* (Kaken) show the same results and confirm that the water meets discharge criteria. Therefore, we plan to commence of the discharge of ALPS treated water into the sea from October 30, 2025 and complete the discharge on November 17, 2025. (planned total amount of water to be discharged: approx. 7,800m³)
- Total tritium discharge volume in ALPS treated water is approximately 2.0 trillion Bq and tritium concentration after dilution is approximately 338 Bq/liter, which is well below the regulatory concentration limit (60,000 Bq/liter), WHO standard for drinking water quality guidelines (10,000 Bq/liter), and value stipulated in the government policy (1,500 Bq/liter).
- Going forward, we will remain vigilant to ensure the safe and stable discharge of ALPS treated water.

* 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).

[Reference] FY2025 ALPS treated water discharge plan (1/2)



- The FY2025 discharge plan is as follows. There will be seven discharges during the year with each discharge releasing approximately 7,800m³ for an annual discharge of approximately 54,600m³. The annual tritium discharge volume will be approximately 15 trillion Bq.

Management number※1	Transfer source tank※2	Amount of water to be transferred ※3	Discharge commencement period
25-1-12	G4 south area group B (Transferred to Measurement/Confirmation facility Group A) K3 area group A/B ※5 (Transferred to Measurement/Confirmation facility Group A)	※4 : <u>Approx. 8,080m³</u> : <u>Approx. 910m³</u>	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.45 - 0.55※6 Tritium concentration: 220,000~370,000Bq/liter ※7 Total tritium volume: Approx. 2.8 trillion Bq April
25-2-13	K3 area group A/B ※5 (Transferred to Measurement/Confirmation facility Group C) J1 area group E (Transferred to Measurement/Confirmation facility Group C)	: <u>Approx. 6,970m³</u> : <u>Approx. 820m³</u>	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.45 - 0.62※6 Tritium concentration: 220,000~380,000Bq/liter ※7 Total tritium volume: Approx. 1.9 trillion Bq June - July
25-3-14	J1 area group E (Transferred to Measurement/Confirmation facility Group A) G5 area group E (Transferred to Measurement/Confirmation facility Group A)	: <u>Approx. 7,300m³</u> : <u>Approx. 480m³</u>	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.47 - 0.62※6 Tritium concentration: 200,000~380,000Bq/liter ※7 Total tritium volume: Approx. 2.9 trillion Bq July - August
25-4-15	G5 area group E/C/B (Transferred to Measurement/Confirmation facility Group B)	※4 : <u>Approx. 8,970m³</u>	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.47 - 0.62※6 Tritium concentration: 200,000~220,000Bq/liter ※7 Total tritium volume: Approx. 1.6 trillion Bq September

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※1 The management number is made up of the fiscal year, followed by the discharge number for that fiscal year, and the total number of discharges to date.

For example, "25-1-12" indicates that the data is for the first discharge of FY2025, which is the twelfth discharge to date.

※2 The tank order from which water will be transferred will not be impacted by increases/decreases in the transfer volume (factual measurements). But order of discharge may be moved forward or backward.

※3 Underlined parts are updated as actual values according to the progress of the work.

※4 Since there will be no water remaining in the receiving tanks (Measurement/Confirmation tank groups A/B) after the tank inspections, the amount of water to be transferred will total approximately 9,000m³ (discharge volume is approximately 7,800m³).

※5 K3 area Group A/B tanks emptied as a result of transfer/discharge during FY2023 and FY2024 will be reused to receive ALPS treated water.

※6 Conservative values calculated from the analytical values of the seven major nuclides (Cs-134, Cs-137, Sr-90, I-129, Co-60, Sb-125, Ru-106) measured after ALPS treatment and storage in tanks, plus the maximum value of C-14 (0.11) and an estimate of the total of other nuclides at 0.3.

※7 Tank group average, estimated taking into consideration decay as of April 1, 2025.

[Reference] FY2025 ALPS treated water discharge plan (2/2)

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Management number※1	Transfer source tank※2	Amount of water to be transferred	Discharge commencement period
25-5-16	G5 area group A/B (Transferred to measurement/confirmation facility Group C)	: <u>Approx. 7,780m³</u> Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.47 - 0.59※3 Tritium concentration: 220,000~260,000Bq/liter ※4 Total tritium volume: Approx. 1.9 trillion Bq	October - November
25-6-17	G5 area group A/D (Transferred to measurement/confirmation facility Group A) G4 north area group A (Transferred to measurement/confirmation facility Group A)	: Approx. 4,050m ³ : Approx. 3,710 m ³ Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.46 - 0.76※3 Tritium concentration: 260,000~300,000Bq/liter ※4 Total tritium volume: Approx. 2.2 trillion Bq	November - December
Inspection suspension (including full inspections of measurement/confirmation facility Group C tanks)			
25-7-18	G4 north area group A/B (Transferred to measurement/confirmation facility Group B) H2 area group J (Transferred to measurement/confirmation facility Group B)	: Approx. 3,700m ³ : Approx. 4,100 m ³ Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.58 - 0.78※3 Tritium concentration: 260,000~270,000Bq/liter ※4 Total tritium volume: Approx. 2.0 trillion Bq	March

➡ FY2025 total tritium discharge volume: Approx. 15trillion Bq

※1 The management number is made up of the fiscal year, followed by the discharge number for that fiscal year, and the total number of discharges to date.
For example, "25-1-12" indicates that the data is for the first discharge of 2025, which is the twelfth discharge to date.

※2 Whereas the order of the tanks from which water will be transferred will not change due to increases or decreases in the amount of water transferred (actual measurements), the discharge number may be moved up or back.

※3 Conservative values calculated from the analytical values of the seven major nuclides (Cs-134, Cs-137, Sr-90, I-129, Co-60, Sb-125, Ru-106) measured after ALPS treatment and storage in tanks, plus the maximum value of C-14 (0.11) and an estimate of the total of other nuclides at 0.3.

※4 Tank group average, estimated taking into consideration decay as of April 1, 2025.