

Fukushima Daiichi Nuclear Power Station
Analysis Results and the Scheduled Date of Commencement for the 5th (23rd overall)
Discharge in FY2026 of ALPS Treated Water into the Sea

< Reference document >
August 27, 2026
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Fukushima Daiichi Decontamination &
Decommissioning Engineering Company

- Transfer of ALPS treated water from H1 East area group A/B to measurement/confirmation facility tank group B was completed on July 6, 2026, in preparation for the 5th (23rd overall) discharge of FY2026. (Actual transferred volume: 7,770 m³) Circulation/agitation commenced on July 9, 2026 and samples were taken on July 16, 2026.
< Announced by July 16, 2026 >

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

Analysis items		Analysis results
①	Nuclides targeted for measurement/assessment (29 nuclides)	The sum of the ratios to regulatory concentrations [0.52] (Confirmed to be less than 1)
②	Tritium	160,000 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 August 31, 2026 and complete the discharge on September 18, 2026. (planned total amount of water to be discharged: approx. 7,800m³)
- Total tritium discharge volume in ALPS treated water is approximately 1.2 T Bq and tritium concentration after dilution is approximately 230 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 targeted for measurement/assessment (29 nuclides); ② Tritium; and ③ Nuclides voluntarily checked to ensure that they are not significantly present (39 nuclides).

[Reference] FY2026 ALPS treated water discharge plan (1/2)



- The FY2026 discharge plan is as follows. There will be eight discharges during the year with an annual discharge of approximately 62,400m³. The annual tritium discharge volume will be approximately 11 T Bq. Note that the annual amount of tritium discharged may differ slightly between the planned and actual values due to factors such as differences between the analytical values obtained from the source tank group and those from the measurement/confirmation tank group.

Management number※ ¹	Transfer source tank※ ²	Amount of water ※ ³ to be transferred	Discharge commencement period (Discharge amount)
26-1-19	H2 area group J (Transferred to Measurement/Confirmation facility Group A) : <u>Approx. 7,390m³</u> H1 East area group C (Transferred to Measurement/Confirmation facility Group A) : <u>Approx. 390m³</u>	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.51 - 0.86 ※ ⁴ Tritium concentration: 150,000~250,000Bq/liter ※ ⁵ Total tritium volume: Approx. 1.9 T Bq	April (7,800m ³)
26-2-20	H1 East area group C (Transferred to Measurement/Confirmation facility Group B) : Approx. 7,800m ³	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.51 - 0.86 ※ ⁴ Tritium concentration: 150,000Bq/liter ※ ⁵ Total tritium volume: Approx. 1.2 T Bq	May – June (7,800m ³)
26-3-21	H1 East area group C (Transferred to Measurement/Confirmation facility Group A) : Approx. 3,700m ³ H1 East area group A/B (Transferred to Measurement/Confirmation facility Group A) : Approx. 4,100m ³	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.51 - 0.86 ※ ⁴ Tritium concentration: 150,000~160,000Bq/liter ※ ⁵ Total tritium volume: Approx. 1.2 T Bq	June – July (7,800m ³)
26-4-22	H1 East area group A/B (Transferred to Measurement/Confirmation facility Group C) : Approx. 7,800m ³	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.60 - 0.84 ※ ⁴ Tritium concentration: 160,000Bq/liter ※ ⁵ Total tritium volume: Approx. 1.3 T Bq	July – August (7,800m ³)

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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, “26-1-19” indicates that the data is for the first discharge of FY2026, which is the nineteenth 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 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. For H1 East-A, B, C and H2-B, the notification concentration ratio calculated from the analytical values of the seven major nuclides is added to the maximum value of C-14 (0.11) or analytical value, and the analytical values of other nuclides (values obtained by analyzing samples obtained by mixing water samples taken from each tank in each tank group).
- ※⁵ Tank group average, estimated taking into consideration decay as of April 1, 2026.

[Reference] FY2026 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 (Discharge volume)
26-5-23	H1 East area group A/B (Transferred to measurement/confirmation facility Group B) H2 area group B (Transferred to measurement/confirmation facility Group B)	: Approx. 4,800m ³ : Approx. 3,000m ³	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.32 - 0.84 ※3 Tritium concentration: 160,000~170,000Bq/liter ※4 Total tritium volume: Approx. 1.3 T Bq August – September (7,800m ³)
26-6-24	H2 area group B (Transferred to measurement/confirmation facility Group A) K1 area group C/D (Transferred to measurement/confirmation facility Group A)	: Approx. 6,200m ³ : Approx. 1,600m ³	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.32 - 0.84 ※3 Tritium concentration: 150,000~190,000Bq/liter ※4 Total tritium volume: Approx. 1.3 T Bq September – October (7,800m ³)
26-7-25	K1 area group C/D (Transferred to measurement/confirmation facility Group C)	: Approx. 7,800m ³	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.35 - 0.40 ※3 Tritium concentration: 190,000Bq/liter ※4 Total tritium volume: Approx. 1.5 T Bq October – November (7,800m ³)
Inspection suspension (including full inspections of measurement/confirmation facility group A tanks)			
26-8-26	K1 area group C/D (Transferred to measurement/confirmation facility Group B) G4 South area group C (Transferred to measurement/confirmation facility Group B)	: Approx. 1,900m ³ : Approx. 5,900m ³	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.35 - 0.50 ※3 Tritium concentration: 190,000Bq/liter ※4 Total tritium volume: Approx. 1.5 T Bq February – March (7,800m ³)

➡ FY2026 total tritium discharge volume: **Approx. 11 T 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, “26-1-19” indicates that the data is for the first discharge of 2026, which is the nineteenth 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. For H1 East-A, B, C and H2-B, the notification concentration ratio calculated from the analytical values of the seven major nuclides is added to the maximum value of C-14 (0.11) or analytical value, and the analytical values of other nuclides (values obtained by analyzing samples obtained by mixing water samples taken from each tank in each tank group).

※4 Tank group average, estimated taking into consideration decay as of April 1, 2026.