< R e f e r e n c e d o c u m e n t > A p r i l 2 8 , 2 0 2 5 Tokyo Electric Power Company Holdings, Inc. Fukushima Daiichi Decontamination and Decommissioning Engineering Company

- The first discharge of ALPS treated water (approximately 7,800m<sup>3</sup>) in FY2025 from the measurement/confirmation facility tank group A began at 11:32 AM on April 10.
- In order to ensure that the ALPS treated water (tritium) is properly diluted every day during the discharge period, we have analyzed the tritium concentration in the water after dilution with seawater and confirmed that the analysis values are approximately equal to calculated concentrations, and below 1,500Bq/liter.
- During the discharge period, seawater samples have also been taken from 4 locations within 3km and 10km radius of the power station, and the detection limit has been raised to approximately 10Bq/liter in order to quickly obtain tritium concentration measurement results. As a result, we have confirmed that the analysis values are below both the discharge suspension level (700 Bq/liter<sup>\*1</sup> or 30 Bq/liter<sup>\*2</sup>) and the investigation level (350 Bq/liter<sup>\*1</sup> or 20 Bq/liter<sup>\*2</sup>).

\*1 10 locations within 3 km of the power station

\*2 4 locations within 10 km square in front of the power station

< Announced by April 27 >

- During the first discharge of ALPS treated water in FY2025, the amount of the ALPS treated water being discharged remained constant at approximately 460m<sup>3</sup>/day, and daily quick analysis results of tritium concentrations in the seawater have confirmed that the ALPS treated water is being discharged safely as planned.
- We have completed the discharge of the ALPS treated water from the measurement/confirmation facility tank group A at 3:36 PM on April 27. The flush out of the water remaining in the ALPS treated water transfer line (ALPS treated water) was completed at 11:50 AM on April 28, and the completion of this task marked the end of the first discharge of ALPS treated water in FY2025. (Total amount of water discharged: approx. 7,853m<sup>3</sup>, Total amount of tritium discharged: approx. 2.9 trillion Bq)
- Going forward, we will remain vigilant to ensure the safe and stable discharge of ALPS treated water.

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

# TEPCO

As of March 2025, the FY2025 discharge plan is as follows. There will be seven discharges during the year with each discharge releasing approximately 7,800m<sup>3</sup> for an annual discharge of approximately 54,600m<sup>3</sup>. The annual tritium discharge volume will be approximately 15 trillion Bq.

Management number <sup>%1</sup>	Transfer source tank <sup>*</sup>	<b>%</b> 2	Amount of water >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	×3	Discharge commencement period
25-1-12	G4 south area Group I K3 area Group A/B <sup>**5</sup>	B (Transferred to Measurement/Confirmation facility Group A ) (Transferred to Measurement/Confirmation facility Group A )	×4 : <u>Approx. 8,080m<sup>3</sup></u> : <u>Approx. 910m<sup>3</sup></u>	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.45 - 0.55 <sup>%6</sup> Tritium concentration: 220,000~370,000Bq/liter <sup>%7</sup> Total tritium volume: Approx. 2.8 trillion Bq	April
25-2-13	K3 area Groups A/B <sup>**5</sup> J1 area Group E	(Transferred to Measurement/Confirmation facility Group C) (Transferred to Measurement/Confirmation facility Group C)		Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.45 - 0.62 <sup>%6</sup> Tritium concentration: 220,000~380,000Bq/liter <sup>%7</sup> Total tritium volume: Approx. 1.9 trillion Bq	June - July
25-3-14	J1 area Group E G5 area Group E	(Transferred to Measurement/Confirmation facility Group A ) (Transferred to Measurement/Confirmation facility Group A )		Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.47 - 0.62 <sup>%6</sup> Tritium concentration: 200,000~380,000Bq/liter <sup>%7</sup> Total tritium volume: Approx. 2.9 trillion Bq	July - August
25-4-15	G5 area Groups E/C/B	( Transferred to Measurement/Confirmation facility Group B)	¥4 : Approx. 9,000m <sup>3</sup>	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.47 - 0.62 <sup>%6</sup> Tritium concentration: 200,000~220,000Bq/liter <sup>%7</sup> Total tritium volume: Approx. 1.6 trillion Bq	September

#### Continues on next slide

- X1 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 Amount of water to be transferred indicate planed values. 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 9,000m<sup>3</sup> (discharge volume is approximately 7,800m<sup>3</sup>).
- 35 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.

Excerpt from the reference materials of 136th meeting (Announced on March 27, 2025).

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

#### Continued from previous slide

Management number <sup>涨1</sup>	Transfer source tank <sup>*2</sup>		Amount of water to be transferred	со	Discharge mmencement period	
25-5-16	G5 area group A/B(Transferred to measurement/confirmation facility Group C)		: Approx. 7,800m <sup>3</sup>	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.47 - 0.59 <sup>&amp;3</sup> Tritium concentration: 220,000~260,000Bq/liter <sup>&amp;4</sup> Total tritium volume: Approx. 1.9 trillion Bq	October - November	
25-6-17	G5 area group A/D (Transferred to measurement/confirmation facility Grou G4 north area group A/B (Transferred to measurement/confirmation facility Grou	· .	: Approx. 4,000m <sup>3</sup> : Approx. 3,800 m <sup>3</sup>	Secondary treatment: None Sum of the ratios to regulatory concentrations: 0.46 - 0.76 <sup>&amp;3</sup> Tritium concentration: 260,000~300,000Bq/liter <sup>&amp;4</sup> Total tritium volume: Approx. 2.2 trillion Bq	November - December	
Inspection suspension (including full inspections of measurement/confirmation facility Group C tanks)						

					Secondary treatment: None	
25-	25-7-18	G4 north area group A/B(Transferred to measurement/confirmation facility Group B)		: Approx. 3,700m <sup>3</sup>	Sum of the ratios to regulatory concentrations: 0.58 - 0.78 <sup>3</sup>	Manah
	25-7-18	H2 area group J	(Transferred to measurement/confirmation facility Group B)	: Approx. 4,100 m <sup>3</sup>	Tritium concentration: 260,000~270,000Bq/liter **4	March
					Total tritium volume: Approx. 2.0 trillion Bq	

#### 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.

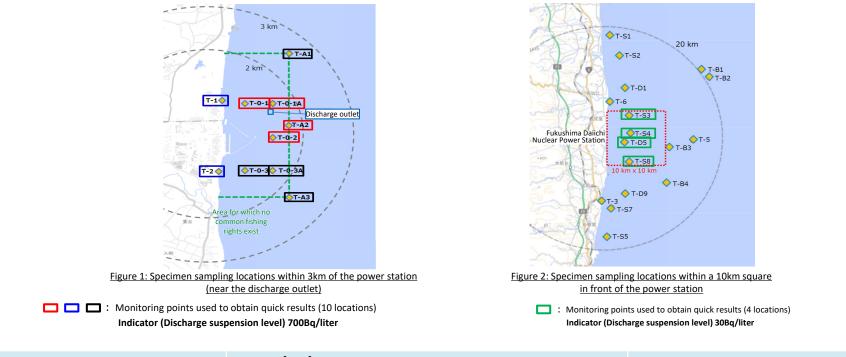
X2 Whereas the order of the tanks from which water will be transferred will not change due to increases or decreases in the amount of water transferred (actual measurements), the discharge number may be moved up or back.

\*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

## [Reference] Measurement monitoring plan for obtaining quick results **TEPCO**

 Since the commencement of ALPS-treated water discharge into the sea in August 2023, TEPCO has engaged in monitoring to obtain quick measurements of the concentration of tritium in seawater at 14 locations shown in the diagrams below (Upper detection limit: Approximately 10Bq/liter). The discharge is immediately suspended if any of the values exceed the discharge suspension level (noted in the diagrams)



	[Fig.1] Within 3km of the p	[Fig. 2] Four locations within a 10km square		
	Four locations in the vicinity of the discharge outlet	Other six locations 🛛 🗖	in front of the power station	
During the discharge period and for one week after the completion of discharge			T-D5: Every week	
During the discharge suspension period (Excluding the week following the completion of discharge)	Once a week <sup>**2</sup>	Once a month $^{st_2}$	T-S3,T-S4,T-S8: Once a month	

- %1 If bad weather during the discharge period prevents measurements for being taken for two consecutive days, on the following day (third day) if it is again expected that measurements cannot be taken, measured results will be quickly obtained from T-1 and T-2.
- %2 We have engaged in monitoring daily since the commencement of discharge in August 2023, but the monitoring plan was changed on December 26, 2023 in light of actual measurements taken during discharge (<u>Announced on December 25, 2023</u>)