

## **Completion of pre-use inspections of ALPS treated water dilution/discharge facility measurement/confirmation facility at the Fukushima Daiichi Nuclear Power Station and commencement to operate circulation/agitation equipment**

<Reference Material>

March 16, 2023

TEPCO Holdings

Fukushima Daiichi D&D Engineering  
Company

- Considering the Japanese government's basic policy announced in April 2021, TEPCO had been reviewing the details of the design and operation of ALPS treated water dilution/discharge facility and related facilities. On December 21, 2021, TEPCO submitted the "Application Documents for Approval to Amend the Implementation Plan for Fukushima Daiichi Nuclear Power Station Specified Nuclear Facility" to the Nuclear Regulation Authority (NRA), and on July 22, 2022, these application documents were approved by the NRA.
- Construction on ALPS treated water dilution/discharge facilities began on August 4, 2022, and we have been installing pipe/pipe supports, etc., for the measurement/confirmation facility.
- Pre-use inspections began on January 16, 2023.

<[Announced as of February 22](#)>

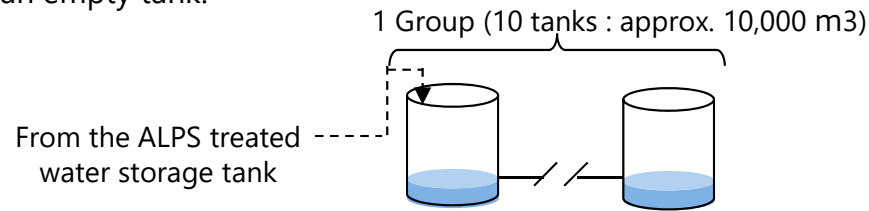
- Measurement/confirmation facility installation has been underway and pre-use inspections began on January 16. On March 15, we received a certificate of completion from the Nuclear Regulation Authority pertaining to the pre-use inspections of measurement/confirmation facility.
- In light of this, we will begin operation of circulation/agitation equipment tomorrow in order to make the concentrations of radioactive substances in tank groups and measurement/confirmation tanks homogeneous. Thereafter, we will collect/analyze samples to ensure that the ALPS treated water meets discharge standards (sum of the ratios of legally required concentrations of radioactive substances, excluding tritium, in ALPS treated water is less than 1) prior to dilution/discharge.
- We will continue to prioritize safety as we move forward with transfer facility, dilution facility, and discharge facility construction, and successive pre-use inspections will be conducted.

# (Reference) Overview of Measurement/Confirmation Facility

- K4 area tanks (total : approx. 30,000 m<sup>3</sup>) will be used as measurement and confirmation tanks. 10 tanks of each will be taken from groups A, B, and C (each tank has a capacity of around 1,000m<sup>3</sup>).
- Tank groups will be rotated for use during the ① Receiving process, ② Measurement/confirmation process, and ③ Discharge process, and during the ② Measurement/confirmation process, the water shall be circulated/agitated in order to take a sample for analysis that is homogeneous and represents all the water in the tanks. After the commencement of discharge, for the time being the water in the tank groups shall be circulated/agitated at least twice<sup>※</sup>.  
※ The water will recirculate/agitated for more than 144 hours

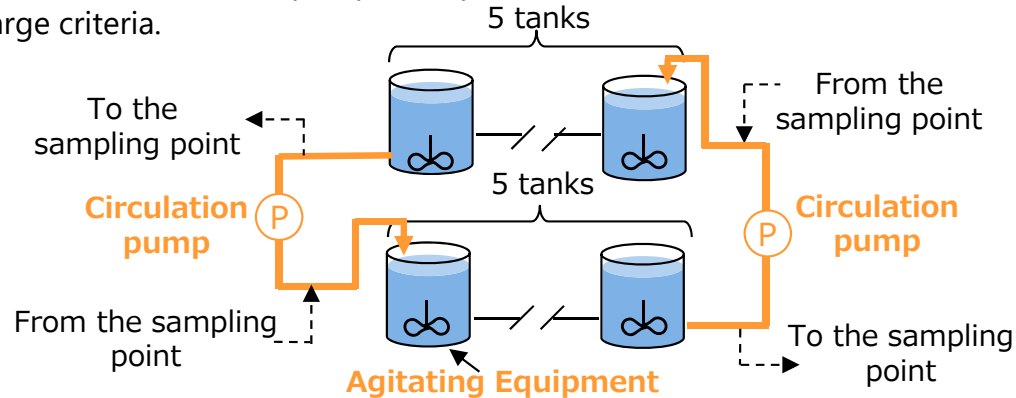
## ① Receiving process

Receive ALPS treated water from the ALPS treated water storage tank into an empty tank.



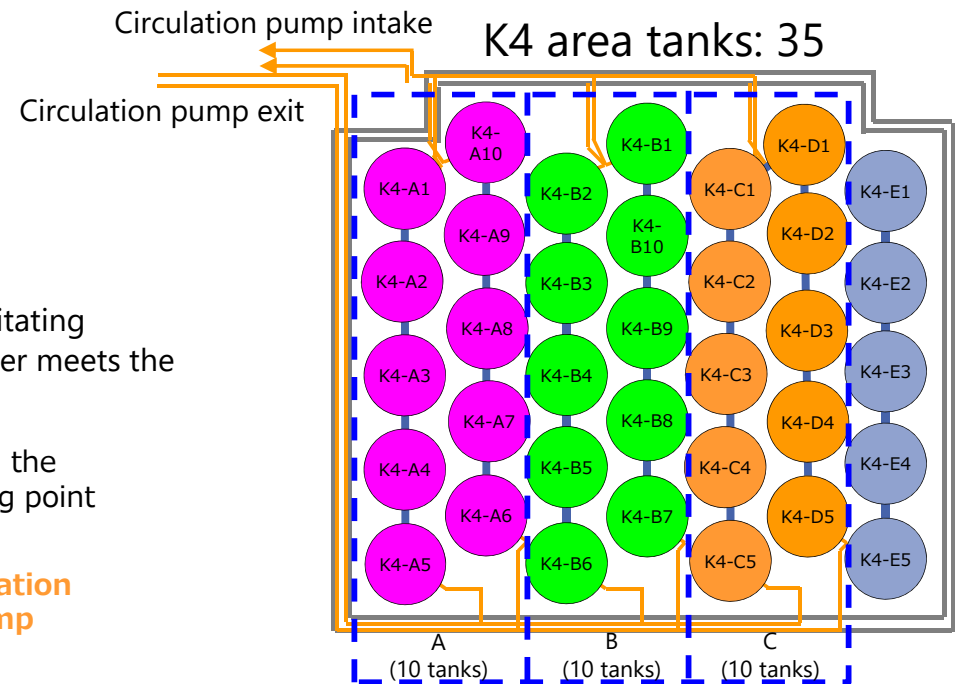
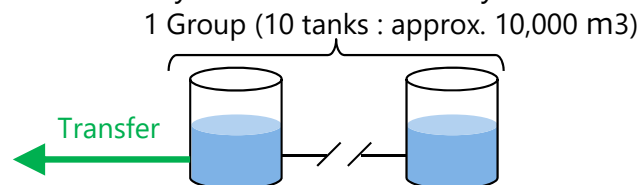
## ② Measuring/confirmation process

After homogenizing the quality of the water in the tanks using the agitating equipment and circulation pumps, samples are taken to see if the water meets the discharge criteria.



## ③ Discharge Process

After confirming the water meets the discharge criteria, the ALPS treated water is transferred via the transfer facility to the dilution facility.



	A	B	C
1 <sup>st</sup> round	Receiving	—	—
2 <sup>nd</sup> round	Measurement and confirmation	Receiving	—
3 <sup>rd</sup> round	Discharge	Measurement and confirmation	Receiving
4 <sup>th</sup> round	Receiving	Discharge	Measurement and confirmation
...	Measurement and confirmation	Receiving	Discharge

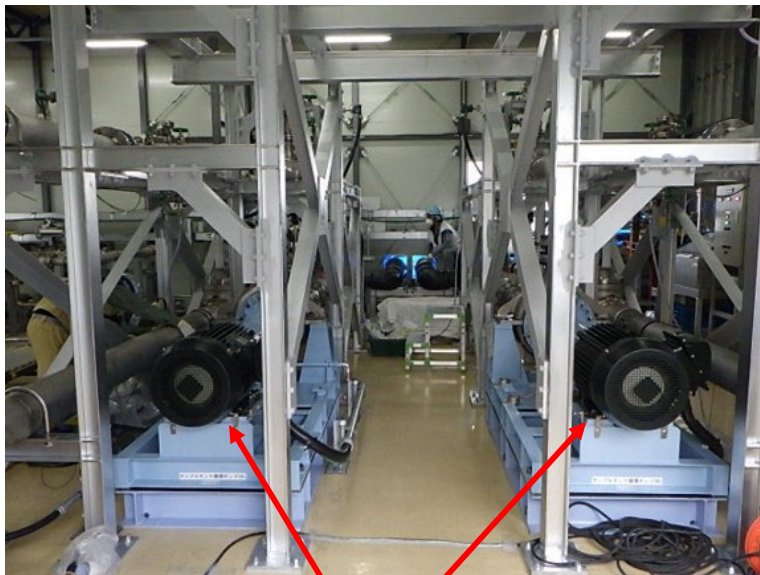
# (Reference) Measurement/Confirmation Facility



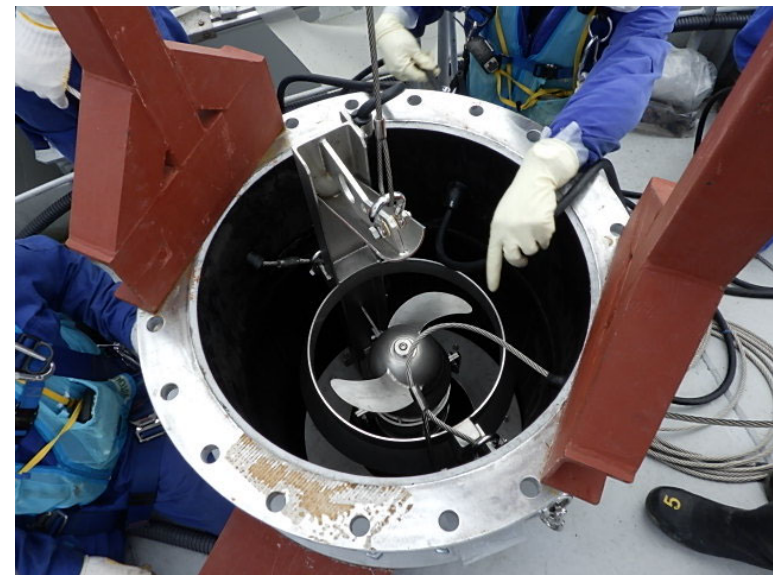
Measurement/Confirmation tank



Sampling point



Circulation pump



Agitating equipment\*

\*Photo taken before installation