

# Status of Progress with the Installation of ALPS Treated Water Dilution/Discharge Facility and Related Facilities



June 29, 2023

Tokyo Electric Power Company Holdings, Inc.

# 1. Status of construction

## ■ Measurement/confirmation facility and transfer facility

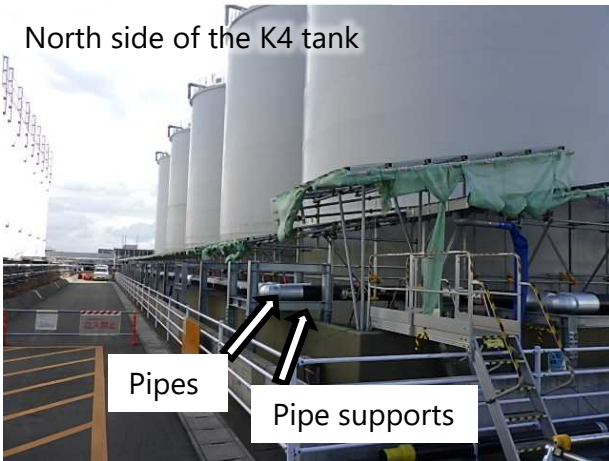
The Installation of pipe supports, and piping and other works for the measurement/confirmation facility and the transfer facility has been completed.

The Pre-service inspection began on January 16.

## ■ Dilution facility

The driving of foundation piles and construction of the foundation frame for the seawater transfer pipes have been completed. Installation of pipes and other equipment have been completed.

North side of the K4 tank



Pipes  
Pipe supports

Installing circulation pipes and pipe supports



Circulation pump

Installing the piping supports/pipes [Measurement/confirmation facility] completed

- Supports  
Approx. 540m out of approx. 540m
- Pipes  
Approx. 1,000m out of approx. 1,000m

[Transfer facility] completed

- Supports  
Approx. 1,500m out of approx. 1,500m \*1
- Pipes  
Approx. 1,500m out of approx. 1,500m \*1

\*1 Descriptions have been revised

<As of June 26>

[Measurement/confirmation facility]

March 15

- Service inspection completion certificate received

March 17-27

- Circulation/agitation for tank group B commenced

March 27

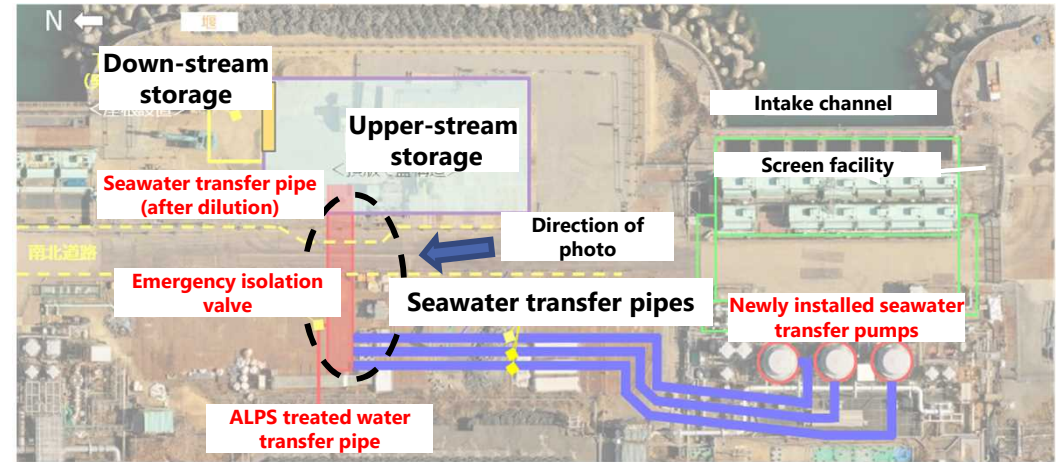
- Samples taken from the B tank group

June 19-26

- Circulation/agitation tank group C commenced

June 26

- Samples taken from the tank group C



Building the seawater transfer pipe foundation and installing the seawater pipe header

[Dilution facility]

- Pipe foundation construction  
11 out of 11 completed
- Support facility  
Approx. 320m out of 320m completed
- Pipe facility  
Approx. 320m out of 320m completed

<As of June 26>

# 1. Status of construction (cont.)

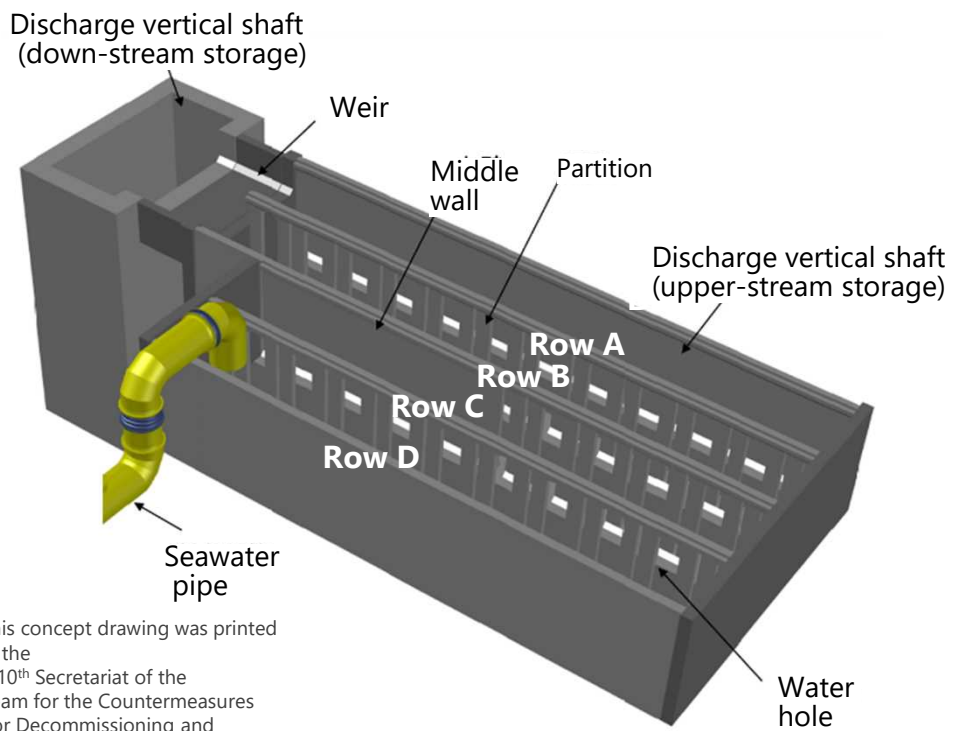
- Dilution facility: Discharge vertical shaft (upper-stream storage)  
The installation assembly and concrete pouring, waterproof painting, water filling in the storage and construction of the weir were completed by June 9.
- Discharge facility : Discharge vertical shaft (down-stream storage)  
Frame construction was completed on March 23, and water filling into the down-stream storage was completed on June 6.



Discharge vertical shaft (upper-stream storage)



Discharge vertical shaft (down-stream storage)



This concept drawing was printed in the 110<sup>th</sup> Secretariat of the Team for the Countermeasures for Decommissioning and Contaminated Water Treatment

# 1. Status of construction (cont.)

## ■ Discharge facility: Discharge tunnel

Date	Task (progress)
Apr 1	Recommencement of tunneling
Apr 22	Main tunneling (bedrock portion) completed
Apr 25	Tunneling machine arrives at end point
Apr 26	Tunneling completed

Date	Task (progress)
May 7	Equipment removal completed
May 21	Waterproofing completed
June 5	Clean-up completed
June 6	Water injection completed



Inside the tunnel



Tunnel endpoint

# 1. Status of construction (cont.)

## ■ Discharge facility : Discharge outlet caisson

The removal of the arrival tube and the installation of the discharge lid (top cover of the discharge outlet caisson) were completed on June 26. It marks the completion of the installation of all facilities required for pre-service inspection by the Nuclear Regulation Agency at the ALPS treated water dilution/discharge facility and related facilities.



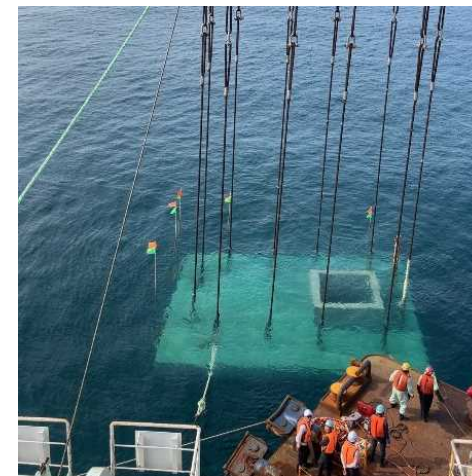
Arrival tube removal ①



Arrival tube removal ②



Discharge lid installation ①



Discharge lid installation ②

# (Reference) Future tasks for offshore work

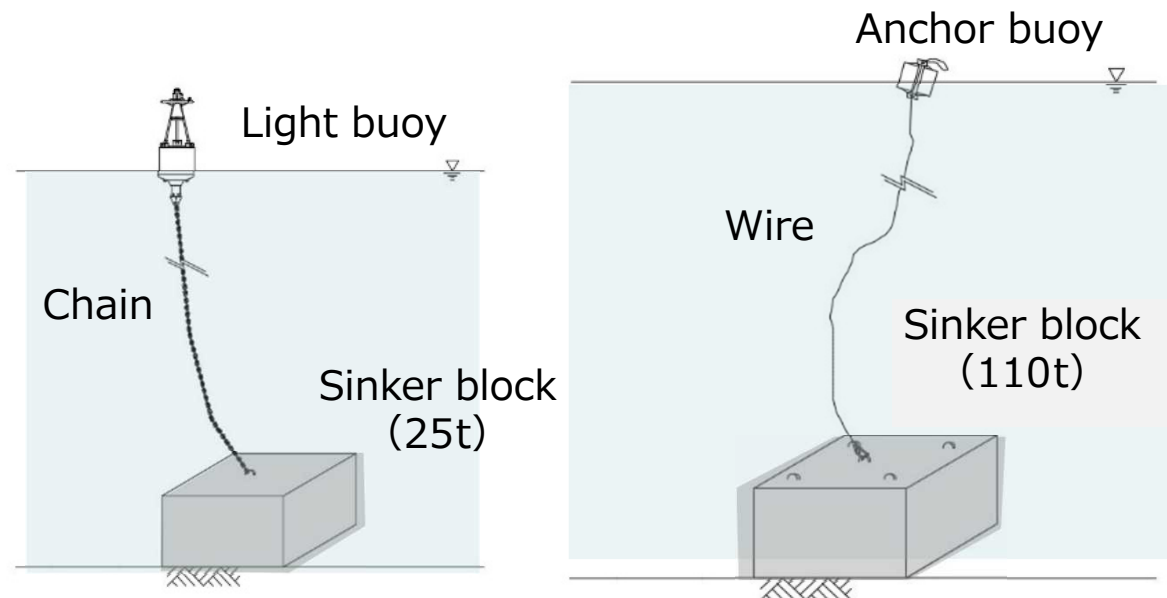
## ■ Future tasks (removal of sinker blocks, light buoys, etc.)

- At the ALPS treated water dilution/discharge facility, the following work will be carried out for offshore construction after the installation of the facilities listed on the previous page is completed.
- If a gap between the discharge lid and the caisson is found during a dive investigation, the area around the discharge lid shall be fixed with mortar if necessary.
- The sinker blocks (110t) and light buoys (including steel sinker blocks) used in the construction will be removed by a crane ship by the end of the year after preparations have been made.



Photographed on June 6, 2022

Light buoy

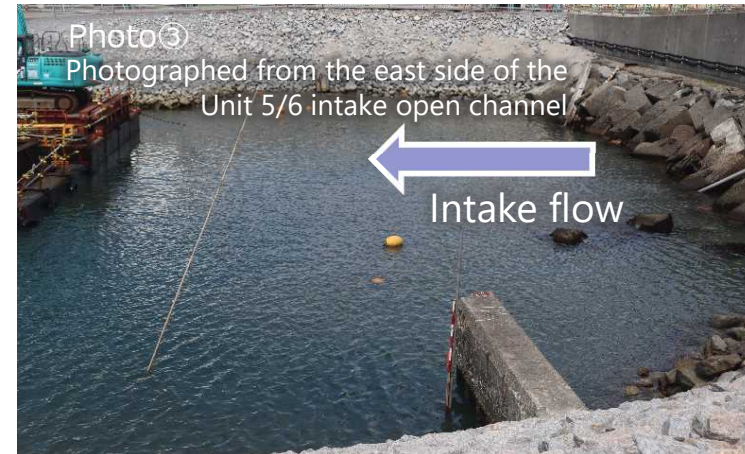
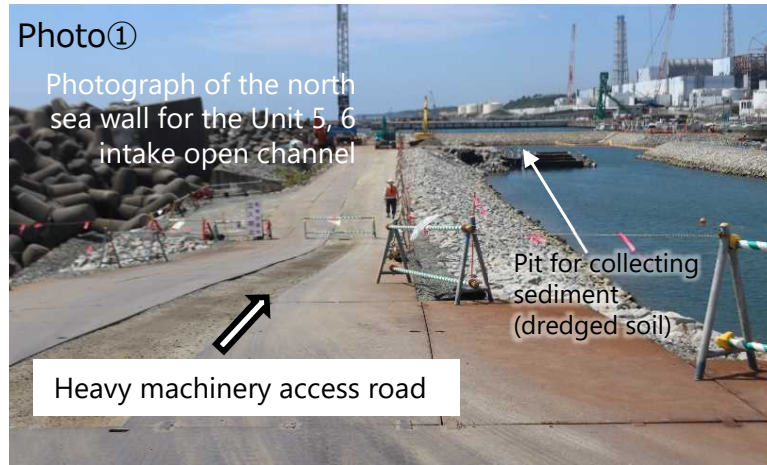


Concept drawing of light buoy and sinker block

# 1. Status of construction (cont.)

■ Other (building a partition weir, etc.)

In the Unit 5/6 sea-side work area, sediments were removed from the open intake channel (dredged soil), and construction of the partition weir was completed on April 13. The removal of a portion of the permeation prevention barrier began on April 18 and was completed on May 26. The removal of sediments (dredged soil) that affect the water intake was completed on June 22.



Work area on the sea-side of Units 5/6