

# (Report) Progress of Necessary Improvements in the Surroundings for Construction of ALPS Treated Water Dilution/Discharge Facilities

March 31, 2022



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Tokyo Electric Power Company Holdings, Inc.

## 2. Progress of land improvements in the surroundings and future plans

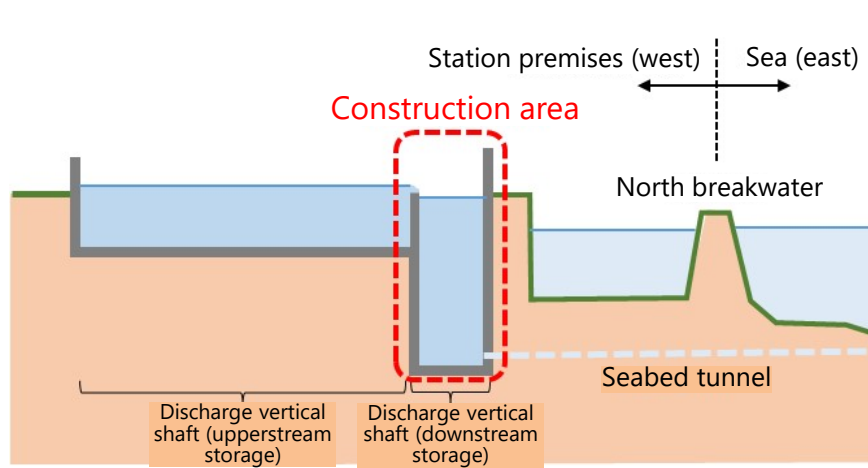
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- Taking into consideration the Japanese government's basic policy (decided in April, 2021), a review of details of the design and operation of facilities for the handling of ALPS treated water at Fukushima Daiichi Nuclear Power Station has been in progress with safety as a major premise to take thorough actions to minimize adverse impacts on reputation.
- On December 21, 2022, we 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 for the plan where the discharge facility discharges ALPS treated water that has been diluted by seawater and has been confirmed that the sum of ratios to regulatory concentration limits, including tritium, is less than 1, from the discharge outlet approximately 1km away via the discharge tunnel.
- In land improvements in the surroundings near the Units 5/6 intake, the establishment of the seabed tunnel and installation of the soil retention for the vertical shaft (downstream storage) necessary for discharge began on December 4, 2021. After said works were completed on January 22, 2022, excavation of the vertical shaft areas began on February 7.

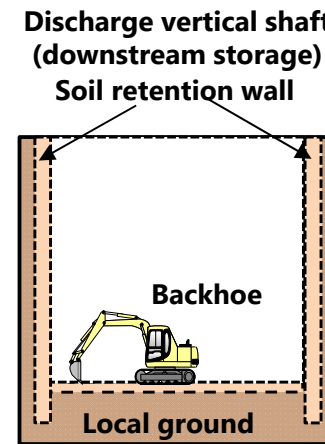
[Announced by February 24, 2022]

- Of land improvements in the surroundings near Units 5/6 intake, excavation of the vertical shaft (downstream storage) was completed on March 4, and work is now underway to clear the bottom of the vertical shaft.
- The 3.16 Fukushima Prefectural offshore earthquake did not cause any damage to the inside of the vertical shaft under construction of the land improvements in the surroundings area. The earthquake caused cracks and subsidence on some ground surfaces in the surrounding area.
- As soon as we restore the cracks in the ground and we are ready, we will implement soil retention and excavation for the vertical shaft (upstream storage).
- We will continue to monitor weather conditions and proceed with the construction with safety first.

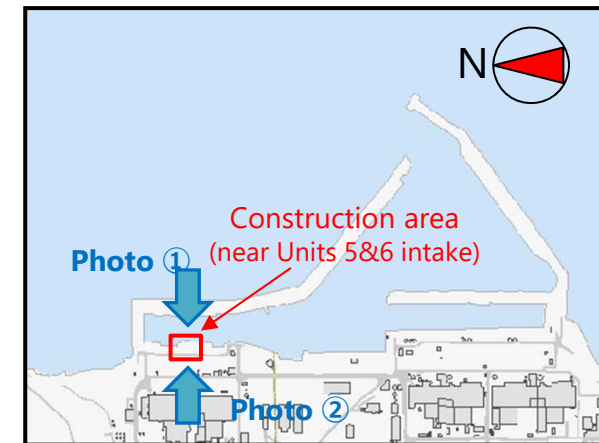
## 2. Progress of land improvements in the surroundings



Cross-section view of construction area



Construction image



Location of construction area

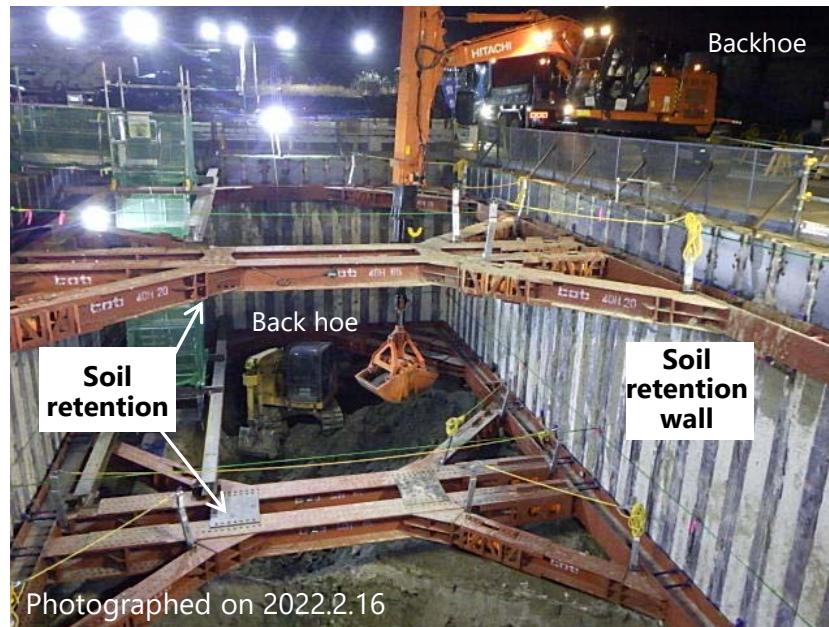


Photo ① Excavation of the vertical shaft

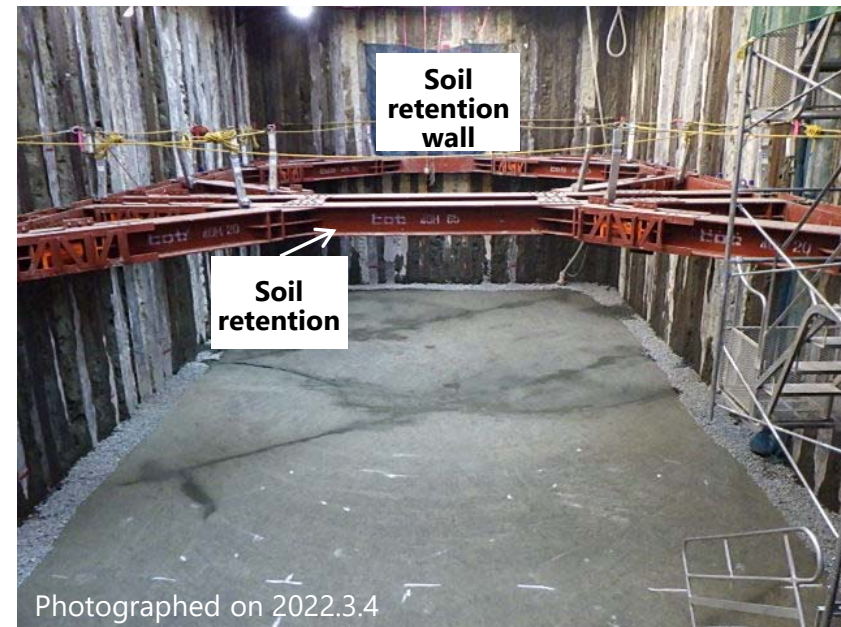


Photo ② Excavation of the vertical shaft completed

### 3. Damage from 3.16 Fukushima Prefecture offshore earthquake and countermeasures

#### ■ Damage

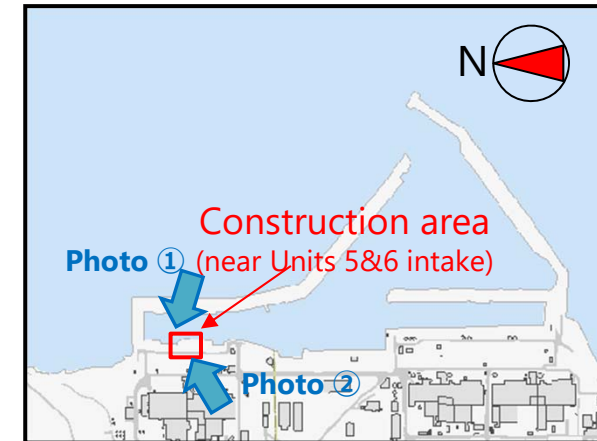
- No damage was caused on the inside of the vertical shaft (downstream storage) under construction in the land improvements in the surroundings area.
- The earthquake caused cracks and subsidence on some ground surfaces in the surrounding area.

#### ■ Emergency restoration measures

- In order to mitigate the effects of the earthquake, slurry materials will be filled into the cracks and ground improvement will be implemented.

#### ■ Permanent measures

- In order to mitigate damages to facilities caused by earthquakes, appropriate measures will be implemented according to the construction progress.



Location of construction area



Photo ① Cracks on the ground after the earthquake (near the downstream storage)



Photo ② Cracks on the ground after the earthquake (around the downstream storage)