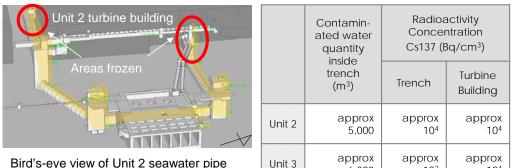
Status of and measures for removing highly contaminated water in trench

1. Objective of waterproofing building connections by freezing

• When removing contaminated water which remains inside the seawater pipe trench at the seaward side of Units 2 and 3's turbine buildings, we waterproof the building connections by freezing them. Once this is completed, we will remove the stagnant water and block the inside of the trench.



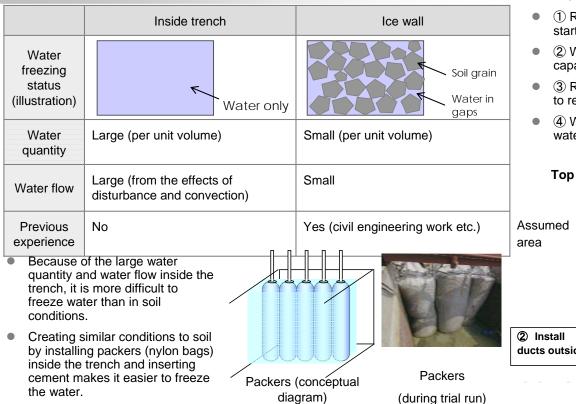
6.000

10²

 10^{4}

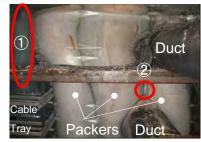
Bird's-eye view of Unit 2 seawater pipe trench

2. Difference between freezing environment in trench and ice wall



3. Freezing operation status and tasks

- We began the freezing operation on April 28th, but it takes time for the temperature to fall at places which are not filled with packers (①) and gaps at the upper side of pipes (②) etc.
- Water flow, caused by fluctuation of the water level at the turbine building, is one of the factors that inhibits freezing.
- Fluctuation of the water level in the turbine building occurs due to injection of cooling water into the reactor, inflow of groundwater and water transfer between buildings to keep the water level lower than the groundwater around the building.



4. Countermeasures and future plans

- We are taking the following measures sequentially, and monitoring the fluctuation of the water level and changes in the freezing temperature.
- Completion of freezing at Unit 2 has been postponed from the end of June to the middle of July (Unit 3's schedule remains unchanged.)
- ① Replacing the sight tubes with freezing ducts to improve the freezing capacity, starting operation from June 4th.
- ② We plan to install more freezing ducts outside the frame to improve the freezing capacity.
- ③ Regulating the amount of water transfer from the turbine building from June 10th to reduce water flow.
- We plan to inject grout between the turbine building and packers to reduce water flow.

