Process Main Building

On-site Bunker

Building

1. Current condition of the common pool connecting duct

[Outline]

- The contaminated water of the Central Radioactive Waste Treatment Facility (Process Main Building) and groundwater flowed into the duct.

- The water inside the duct is transferred about once a month.

[Plan view]

Steps (ladder)

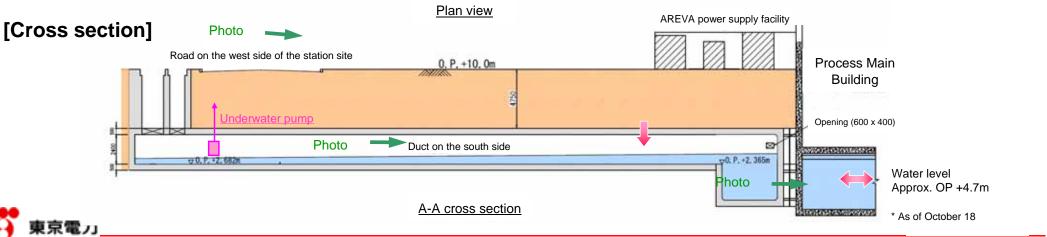
Opening

Duct on the north side

Duct on the south side

Duct on the south side

Approx. 50m



Water Stop Work at the Common Pool Connecting Duct at **Fukushima Daiichi Nuclear Power Station**

2. Surrounding aboveground area and inside of the duct (Photos)



Before the earthquake

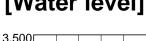


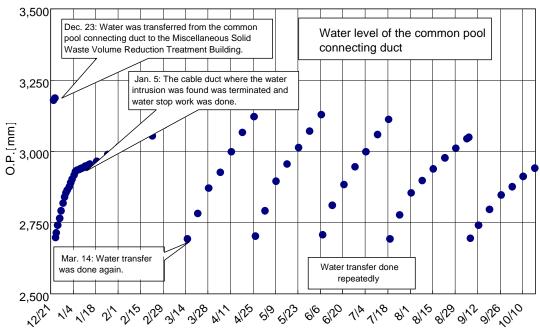
1. Surrounding aboveground area

2. Inside of the duct

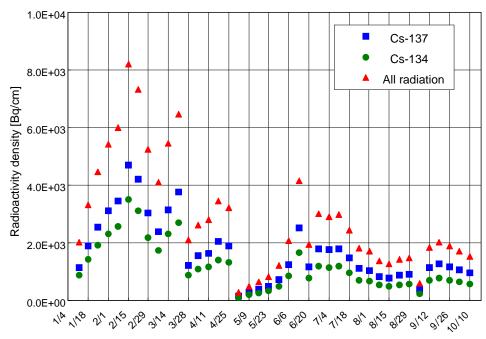
3. Inside of the connecting pit

[Water level]





[Radioactivity density]





Measurement date

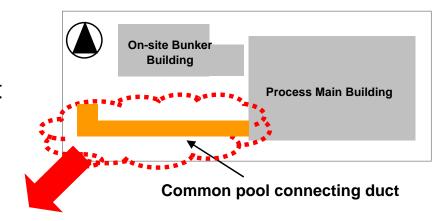
Measurement date

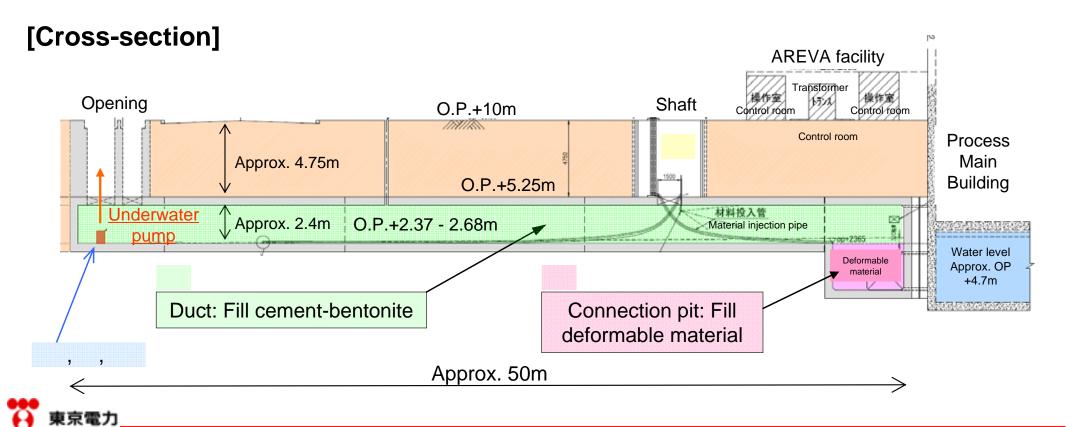
Water Stop Work at the Common Pool Connecting Duct at Fukushima Daiichi Nuclear Power Station

(3) Water stop work at the duct connection area

[Overview]

Fill the duct with cement material in order to prevent contaminated water leakage from the connection area with the Process Main Building and groundwater flow into the duct.





Water Stop Work at the Common Pool Connecting Duct at Fukushima Daiichi Nuclear Power Station

(4) Work flow

1. Preparation

Install shaft, filling hole, etc.

2. Transfer the contaminated water in the duct

Transferred water amount: approx. 100 - 200m³

3. Fill the connection pit with deformable material

Fill deformable material (underwater work, approx. 60m³) from the filling hole through the pipe

4. Transfer the water overflowed from the pit

Transferred water amount: approx. 60m3

5. Fill the duct with cementbentonite Fill cement-bentonite (regular process, approx. 600m³) from the filling hole or opening through the pipe

6. Remaining water treatment, aftertreatment, etc.