

Basic Principle regarding Water Shield Wall to prevent further Seawater Contamination

1. Purpose

To prevent further seawater contamination by underground water, by installing water shield wall in front of the existing seawalls of Unit 1 to 4.

2. Basic Principle of Countermeasure

At Fukushima Daiichi Nuclear Power Station, as part of accumulated water in the buildings flew into the ocean through Unit 2,3 pits etc, we have implemented various measures to prevent further seawater contamination such as sealing pits etc by concrete and liquid glass, installation of silt fence, sandbags with zeolite and circulating seawater purification facility, as well as sliding concrete plate at unit 1 to 4 screen rooms (to seal screen rooms), etc.

At this moment, as the water level of the accumulated water within the building is similar to that of subdrain water (underground water), it is considered that vast amount of accumulated water will not flow outside into the ground. However, we cannot completely deny the possibility of accumulated water flowing into the ground, and further contaminate seawater.

Therefore as indicated in Figure 1, we will install water shield walls made of steel pipe sheet pile that has enough effect of water shield, in front of existing seawalls of Unit 1 to 4. Along this, we will consider underground water management as well, and take all possible measures to prevent further seawater contamination.

3. Schedule

Regarding the water shield wall (seaside), we will compile the design at an early stage subject to the basic principle, and start construction during Step 2 period.

Regarding the water shield wall (land side) around Unit 1 to 4 R/B, we will investigate and consider before the end of Step 2, as stated in "Roadmap towards Restoration from the Accident at Fukushima Daiichi Nuclear Power Station".

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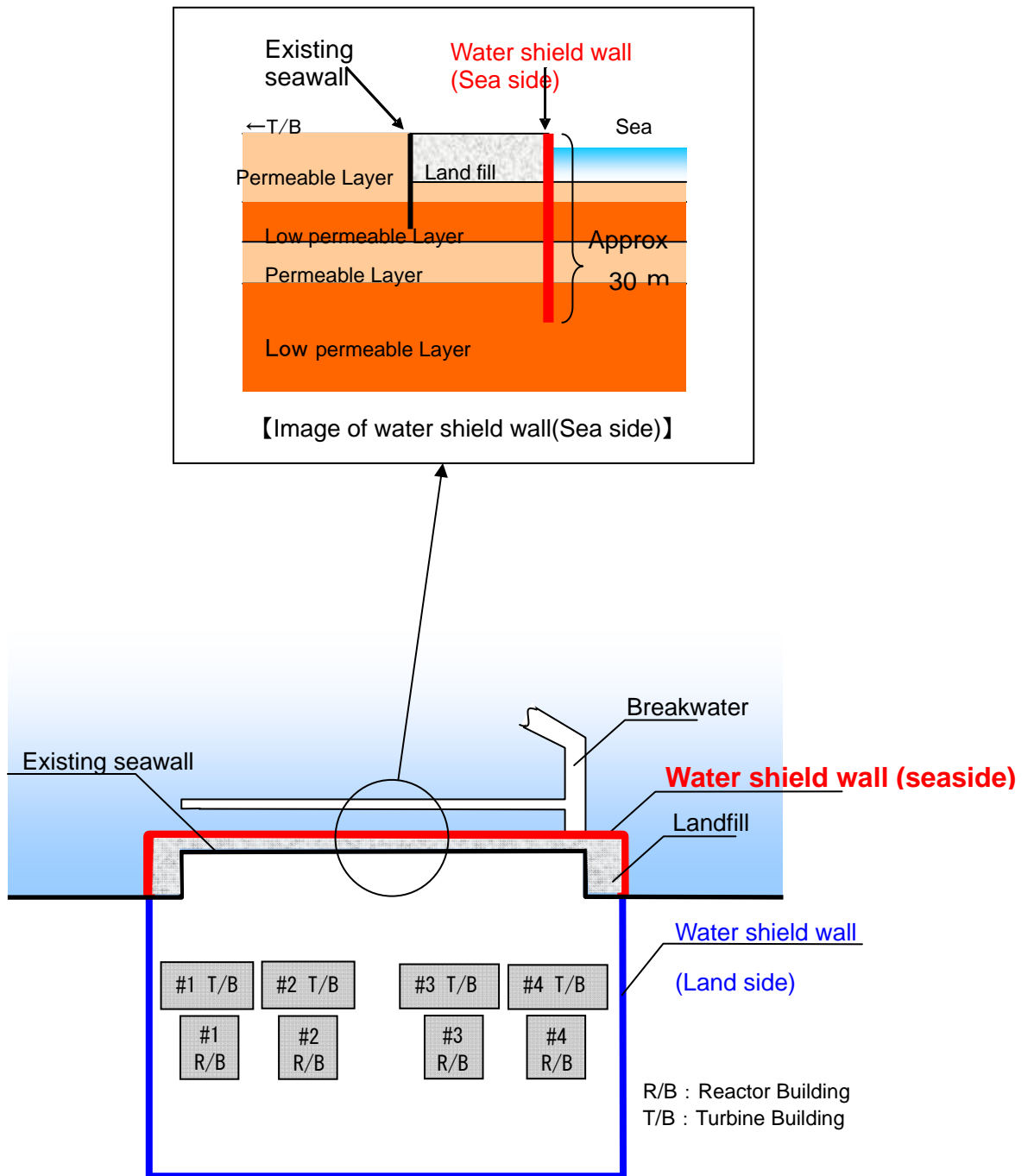


Figure 1 Image of water shield wall of underground water