# 1. Overview of the leak from the dikes at H5 tank area (on December 21 and 22)

## On December 21

At around 4:15 PM: A TEPCO employee confirmed that water was leaking from the bottom part

of the west dike at H5 tank area, after receiving a report on the water leak

from the dike at H5 tank area from a patrolman of an associated company

At around 6:00 PM: Sand bags and plastic sheet were installed as a water pan at the leaking

point, so that they could receive water.

At 7:12 PM: A temporal pump was installed inside the sand bags and the plastic sheet, and then

the water transfer from there to the dike was started.

At 11:35 PM: Water inside the dike at H5 tank area was transferred to the dike at H6 tank area.

#### On December 22

At 2:40 AM: The water transfer from H5 tank area to H6 tank area was stopped.

From 8:00 to 10:00 AM: The construction joints of the concrete foundation (the leaking point)

was repaired with sealing agent.

→The amount of the water leak from the west dike at H5 tank area

decreased, but did not completely stopped.

At around 4:13 PM: A patrolman of an associated company found another water leak from the

north-east dike at H5 tank area. Later, sand bags and plastic sheet was

installed

to receive the water. In addition, a temporal pump was installed inside the

plastic pump.

At around 5:40 PM: Water transfer from the water pan to the inside the dike was started.



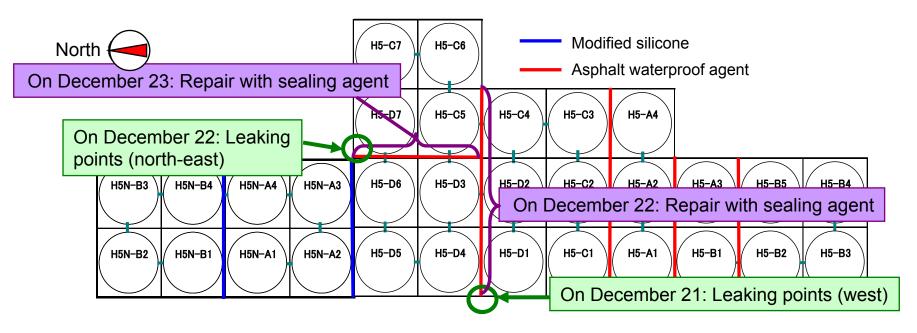
## On December 23

From 8:15 to 10:00 AM: The construction joints of the concrete foundation (the leaking point) were repaired with sealing agent.

===Continuously observing the leak status===

At 3:20 PM: We confirmed the water leak from the west and north-east dikes at H5 tank area stopped.

# 2. The leaking points from the dikes at H5 tank area etc.



\*The concrete foundation is divided into 8 parts at the construction joints on the blue line or red line.



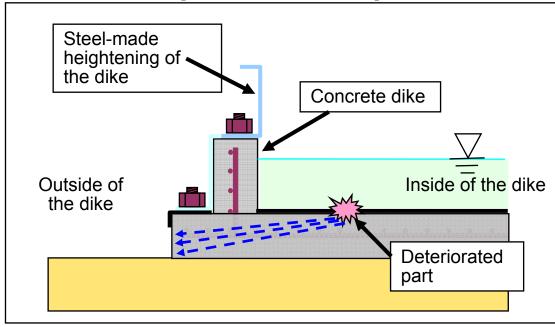
## 3. Estimated causes for the leak from H5 tank area

- The water stop seals applied on the concrete construction joints are estimated to have deteriorated.
  - → After the dike filled with water, the seals are estimated to have gone hydrophilic (easily familiarized with water), and it accelerated the deterioration of the seals.
- From the deteriorated parts, rainwater inside the dike is estimated to have soaked into the construction joints, and have leaked into the outside the dike via construction joints.

### [West dike at H5 tank area]



## [Tank dike in section]



## 4. Results of the treatment at H5 tank area

[Repair with sealing agent inside the dike at H5 tank area]\*



\*Both photos taken on December 22 Source: Tokyo Electric Power Company

[Repair with sealing agent at the west dike at H5 tank area]\*



## 5. Overview of the leak from the dike at G6 north area (on December 22)

## On December 22

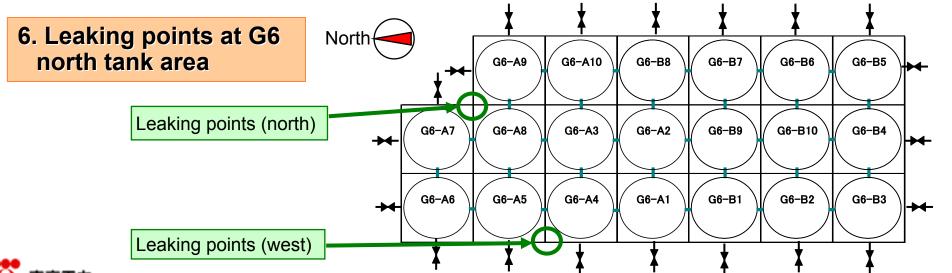
At around 4:33 PM: A patrolman of an associated company found the water leak from the bottom part of the north dike at G6 north tank area.

At around 6:40 PM: The patrolman of an associated company found <u>another water leak</u> from the crack on <u>the west dike at G6 north tank area</u>.

At 7:20 PM: Water transfer from inside the dike at G6 north tank area to G6 south tank area started.

At 9:15 PM: The following treatments implemented after finding the leak completed.

- ✓ Sand bags and plastic sheet were installed as a water pan at the leaking point (the outside of the dike) at G6 north tank area.
- ✓ The crack on the west dike at G6 north tank area (which caused the leak) was repaired with caulking agent. (The leak from the west dike stopped.)



# 7. Estimated cause for the leak from the dike at G6 north tank area

- The crack on the concrete enlarged, as the temperature lowers, and it is estimated water inside the dike leaked from there.
  - →Generally speaking, cracks on concrete have tendency to enlarge, as the temperature lowers.
- The water stop seal will be applied to the crack on the surface of the concrete foundation.

### [Crack on the north dike at G6 north tank area]\*



## 8. Whole measure

Currently, the protection pavement has been implemented at all the concrete foundations. [H2 south tank area after implementing protection pavement]\*



\*Both photos taken by Tokyo Electric Power Company

