Precautionary Measures of Accumulated Water inside the Dike against Typhoon No.27 (Francisco) at Fukushima Daiichi NPS

1. Overview of Transfer Facilities for Accumulated Water inside the Dike

- Notch tanks (4,000m³)
- Underground reservoir No.4 (4,000m³)
- Underground reservoir No.5 (2,000m³)
- Underground reservoir No.7 (4,000m³)
- Notch tank (sampling tank)
- Transfer line (already installed)
- Pump, hose (newly installed)
- Rainwater receiving tank (newly installed, 2 tanks)
- 6 fire engines
- 6 suction vehicles
- Enforced transfer line: Approx. 6km (75mm in diameter)
- Additional pump: 19 (60m³/h)
- Protection tent for countermeasure testing (1 tent)
- Footholds where water discharge measures were implemented (8 locations)

Reference
October 25, 2013
Tokyo Electric Power Company
2. Precautionary Measures against Typhoon and Heavy Rainfall
(* Area where Water inside the Dike Exceeded Discharge Standard)

**Unit 2 T/B**
- O.P.+3,259mm
- (As of 7:00 AM on 10/25)

**Unit 3 T/B**
- O.P.+3,404mm
- (As of 7:00 AM on 10/25)

**Unit 2 T/B**
- O.P.+3,295mm
- (As of 7:00 AM on 10/25)
* Water is managed to be below O.P.+3,500mm

**Unit 3 T/B**
- O.P.+3,300mm
- (As of 7:00 AM on 10/25)
* Water is managed to be below O.P.+3,500mm

**Notch tanks**
- Storage amount/Capacity
  - (As of 7:00 AM on 10/25):
    - Approx. 3,000m³/Approx. 4000m³
  - Capacity of transfer pump was increased.
  - Water will be transferred as much as possible, while taking water level of the building into consideration.

**Notch tanks**
- Storage amount/Capacity
  - (As of 7:00 AM on 10/25):
    - Approx. 3,000m³/Approx. 4000m³
  - Capacity of transfer pump was increased.
  - Water will be transferred as much as possible, while taking water level of the building into consideration.

**RO (Desalination apparatus)**
- SARRY and Kurion will be activated to treat maximum approx. 70m³/h of water.
- Water will be treated in maximum treatment amount including RO system.

**Freshwater tank**

**Accumulated water inside the dike**
- Capacity of transfer pump was increased.
- Water will be transferred in advance as much as possible.

**Underground reservoir**
- (Storage amount/Capacity)
  - *As of 7:00AM on 10/25*
    - No.4 Approx. 600m³/Approx. 4000m³
    - No.5 Approx. 0m³/Approx. 2000m³
    - No.7 Approx. 1500m³/Approx. 4000m³
- Reservoirs will be used temporarily in order to cope with typhoon and heavy rainfall this year.
3. Implementation of Water Discharge of Corridor at H4 Tank Area

Sheet was laid from the upper part of the tank to handrail of the foothold.

Rain

Crosspiece will be lashed by using wire, etc.

Tank for contaminated water

Landing step

Water will be discharged to the outside of the dike by inserting rope in sunny hose of 50 φ (or 100 φ)

Single pipe for fixing of water discharge hose

Full view of the east side of the H4 area

Foothold of the tank No.3

Full view of the tank No.12
Single pipe was installed at the inner side of the handrail of tank foothold, and sheet was laid. Sheet was tied up to the main rope, and water will be discharged to the outside of the dike. Framework foothold was installed, and sheet was fixed to it firmly.

* Reference: Protection Tent Installed at B Tank Area for Countermeasure Testing