Date and time: December 26, 2012 at around 10:10 AM
Location: In the temporary warehouse of the desalination system (RO3)

Outline
1. At around 10:10 AM, a cooperative company worker accidentally had the anti-freeze sheet contact the vent pipe while repairing the sheet in RO3 temporary warehouse. The vent pipe was damaged and water leaked from the damaged part as a result. The damaged part was immediately isolated by closing the valves located in the front and back. After confirming that the leakage had stopped, the worker reported the incident to TEPCO.
2. At 10:16 AM, RO3 was manually stopped.

Estimated leakage amount: Approx. 10L (Approx. 5m x 1m x 2mm (depth))
The leaked water remains in the dam and has not flowed outside of the system.

Radiation dose measurement results (Atmosphere dose rates)
\( \overline{\alpha} : 0.5 \text{ [mSv/h]}, \overline{\alpha + \beta} : 2.0 \text{ [mSv/h]} \)

Leakage location: RO3 UF (Ultra Filter) cassette vent line
Cause: Anti-free sheet accidentally contacted and damaged the vent pipe
Countermeasure: Installation of protection cover on small diameter branch lines is being considered.
Overview of the Desalination System

From the decontamination system
- SPT waste liquid discharge pump
- SPT receiving tank
- Water transfer pump
- SPT(B)

Desalination system (RO)
- Waste liquid RO supply pump
- RO concentrated water supply pump
- RO treatment water supply pump
- RO treatment water receiving tank
- RO treatment water temporary storage

Evaporative concentration system
- RO concentrated water storage transfer pump
- Concentrated water supply pump
- Distilled water transfer pump
- Distilled water tank
- Concentrated treatment water tank

Concentrated water tank
- RO unit for desalination
- Desalination unit

Concentrated waste liquid storage
- Concentrated water tank

Leakage location

Filtrate water tank

Buffer tank

To the reactor
Leakage Location

Leakage area (Full view)

Anti-freeze sheet

Undamaged area
(25A polyvinyl chloride pipe)

Damaged area (Vent line)
Water Leakage in the Desalination System (RO3)

Desalination system (RO3) temporary warehouse

[Area affected by the leakage]
Approx. 5m x 1m x 2mm (Depth)

[Estimated leakage amount]
Approx. 10L