

## **Water Leakage from the Desalination System (RO3) at Fukushima Daiichi Nuclear Power Station**

**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)

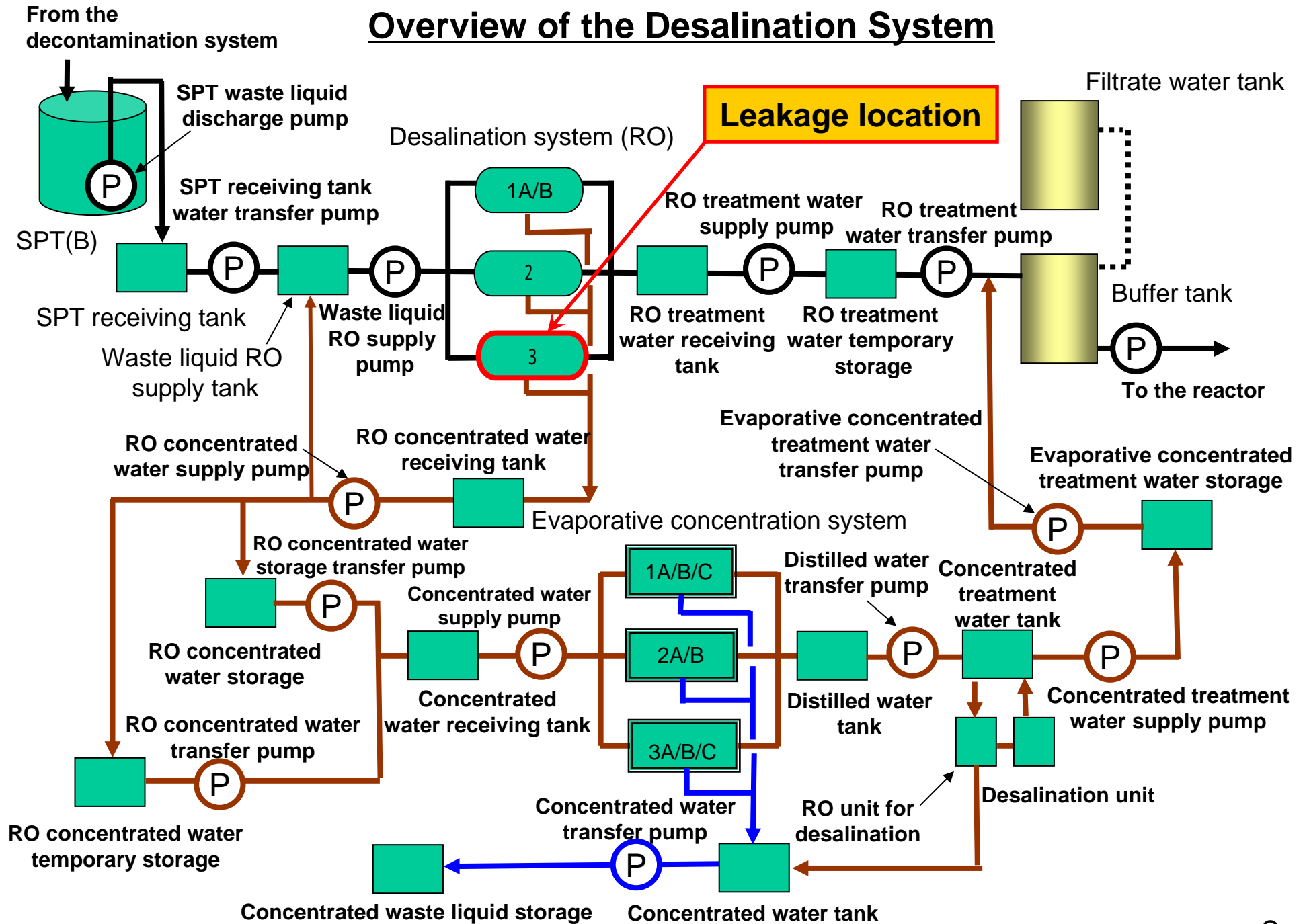
: 0.5 [mSv/h], + : 2.0 [mSv/h]

**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

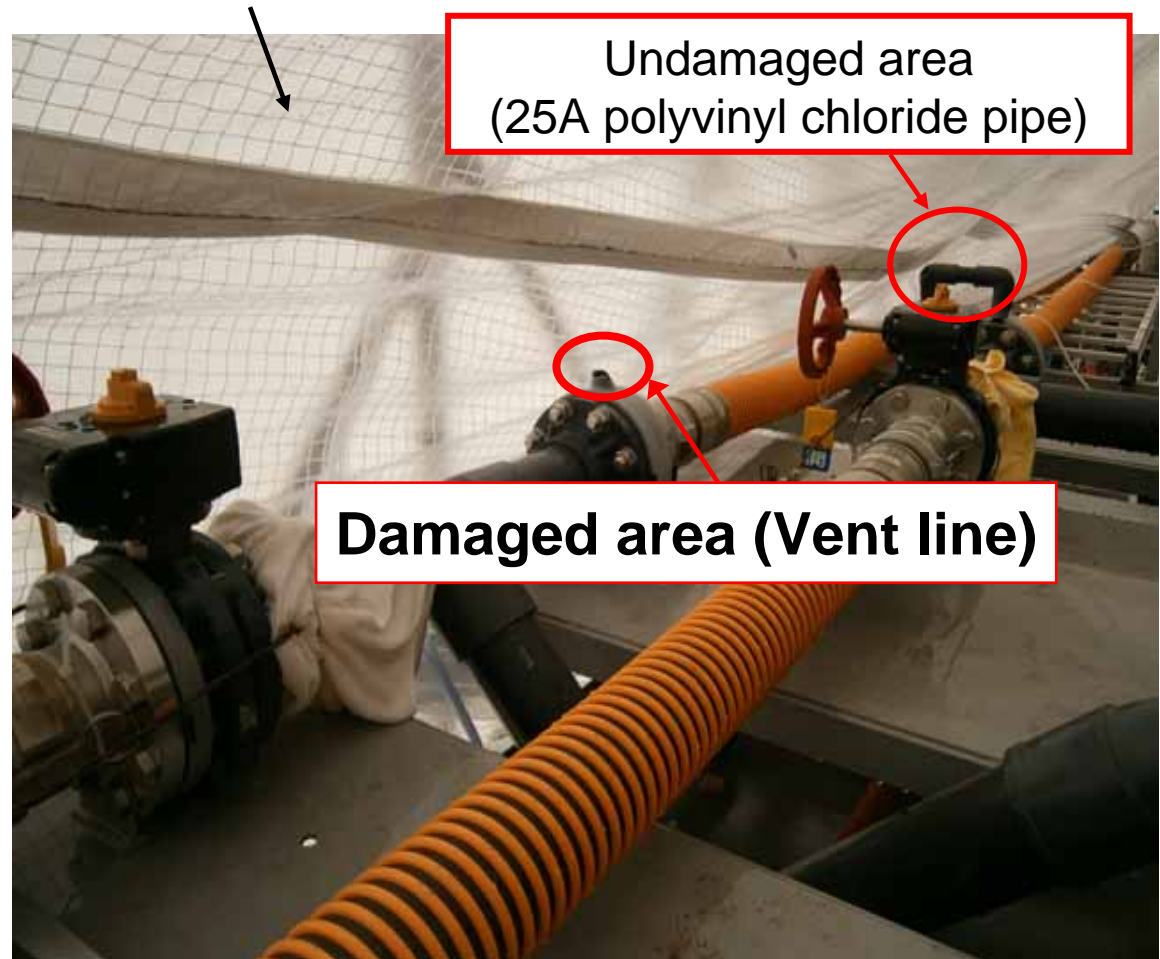


# Leakage Location



Leakage area (Full view)

Anti-freeze sheet

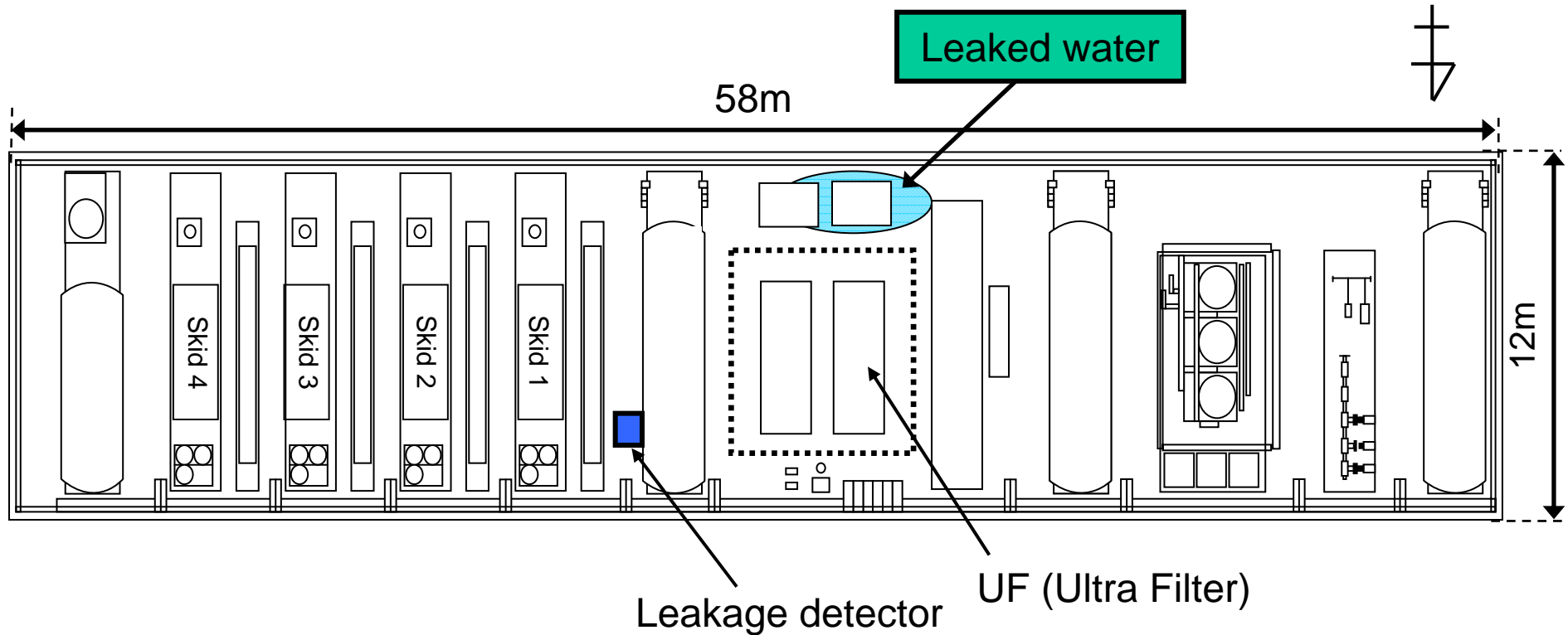


Undamaged area  
(25A polyvinyl chloride pipe)

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