

## **Water Leakage from the Desalination System (Reverse Osmosis Membrane) 3**

### **Time and day**

At around 10:16 AM on August 17, 2012

### **Location**

In the temporary warehouse of the desalination system (Reverse osmosis membrane) 3

### **Detail**

1. A worker of a cooperative company on patrol found a puddle on the floor as he entered the temporary warehouse (at 10:16).
2. The desalination system (RO3) was stopped manually (at 10:17) and the leakage was stopped (at 10:22).

### **Estimated leakage amount**

Approx. 0.2 [m<sup>3</sup>]

### **Radiation dose measurement result (surface radiation dose)**

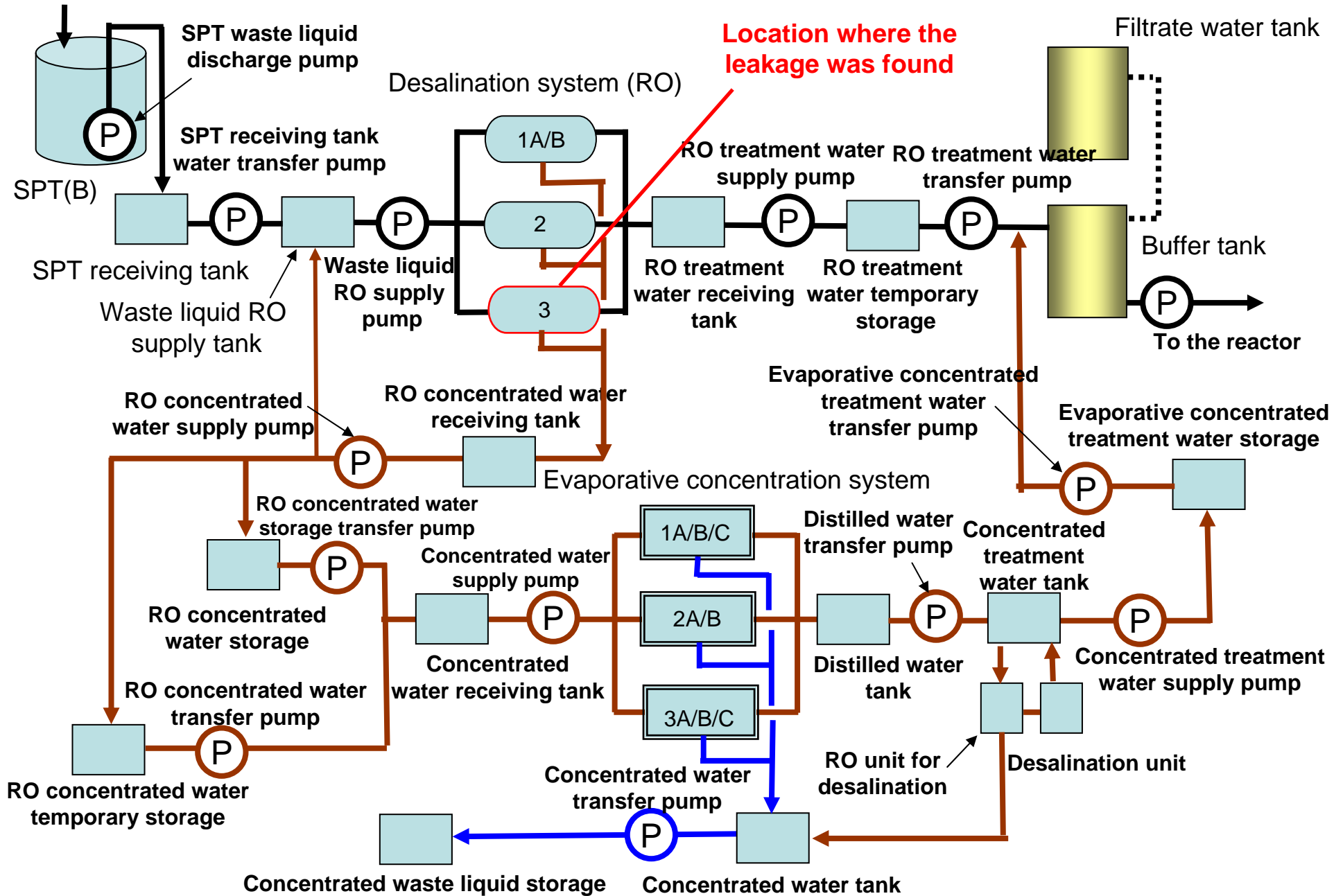
: 0.1[mSv/h], : 3 [mSv/h]

### **Cause**

Under investigation

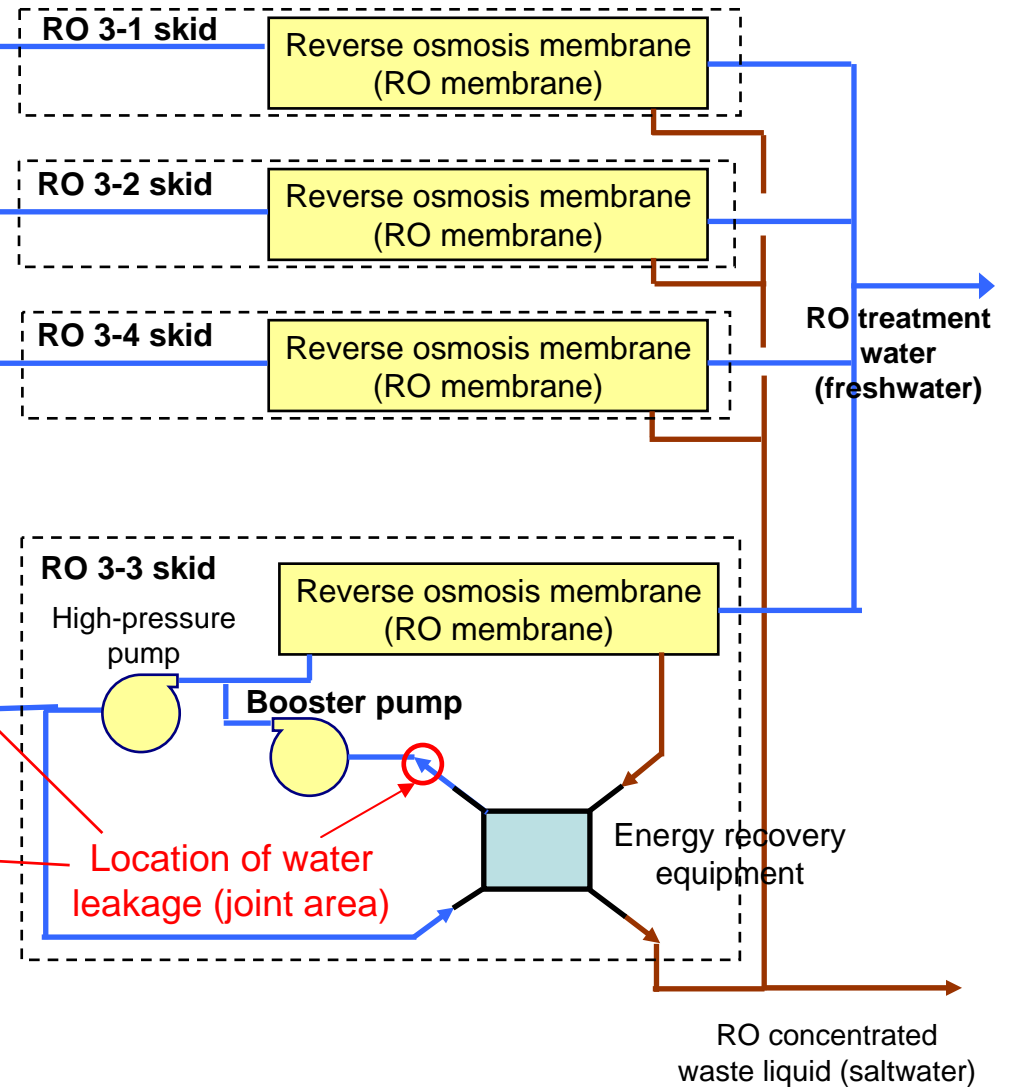
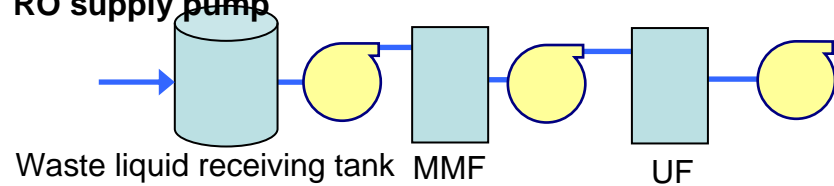
From the decontamination system

# Overview of the Desalination System

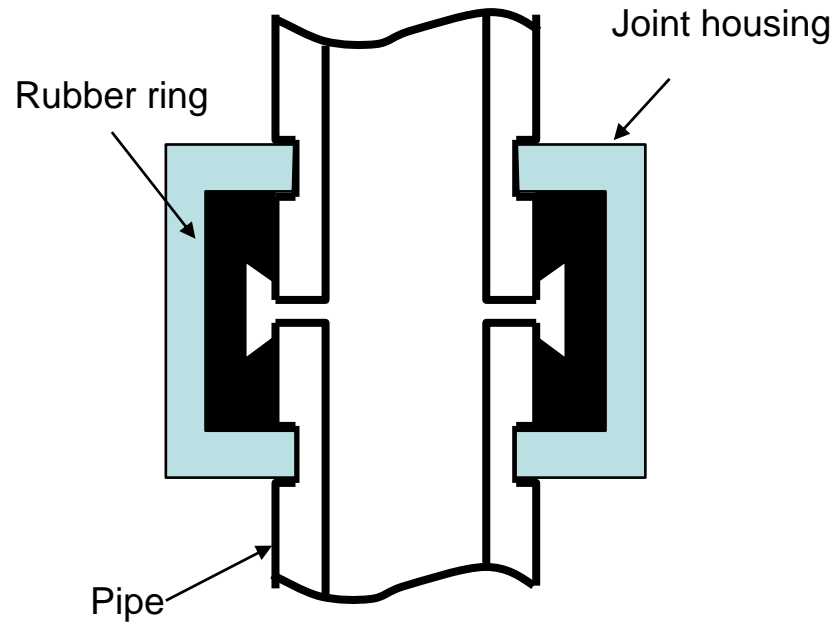


# Water Leakage Area in the Desalination System (Reverse Osmosis Membrane) 3

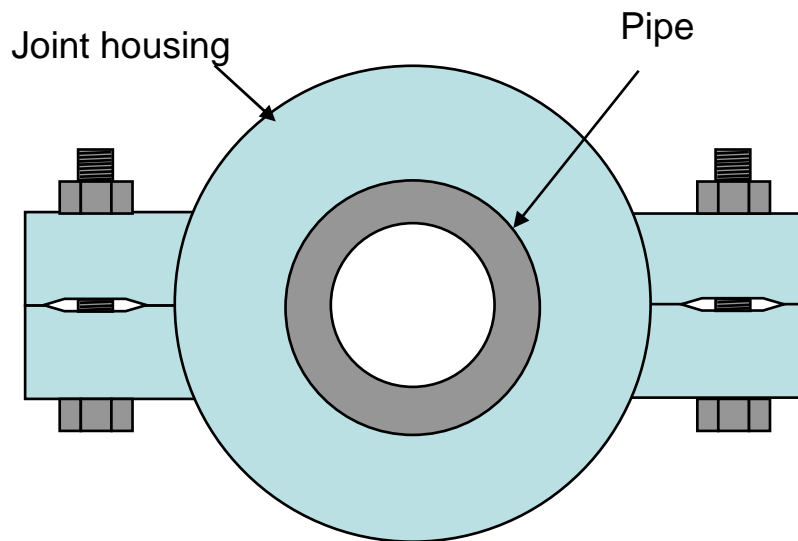
From the waste liquid  
RO supply pump



# Structure of the Joint Area



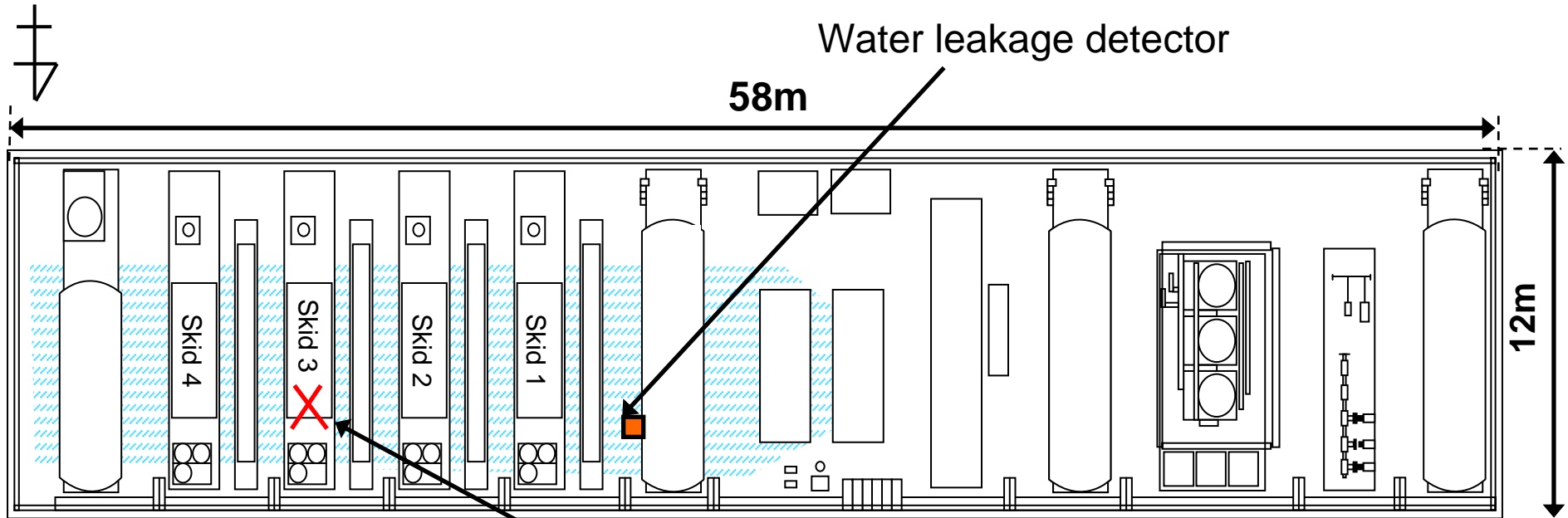
Joint area



Damaged joint area

# Water Leakage Location in the Desalination System (Reverse Osmosis Membrane) 3

Temporary warehouse of the desalination system  
(Reverse osmosis membrane) 3



Water leakage location

10m × 20m × 1mm (Depth)

(Estimated leakage amount: Approx. 0.2m<sup>3</sup>)