

# Water Leakage from the Second Cesium Absorption Apparatus (SARRY) Vent Line

**Date and time:** At around 8:00 AM on November 20, 2012

**Location:** Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)

## **Outline**

At around 8:00 AM A TEPCO employee on patrol found the water leakage.

At 8:26 AM The second cesium absorption apparatus (SARRY) was stopped (a small amount of water leakage still continued).

At 9:47 AM Started installing sandbags around the leakage area (completed at around 10:10 AM).

At around 10:10 AM The leakage was confirmed to have stopped (the stopper plug installed in the drain line was removed).

At around 1:00 PM The leaked water was wiped off.

**The amount of leakage:** Approx. 176L (Approx. 16mx11mx1mm)

## Sampling results

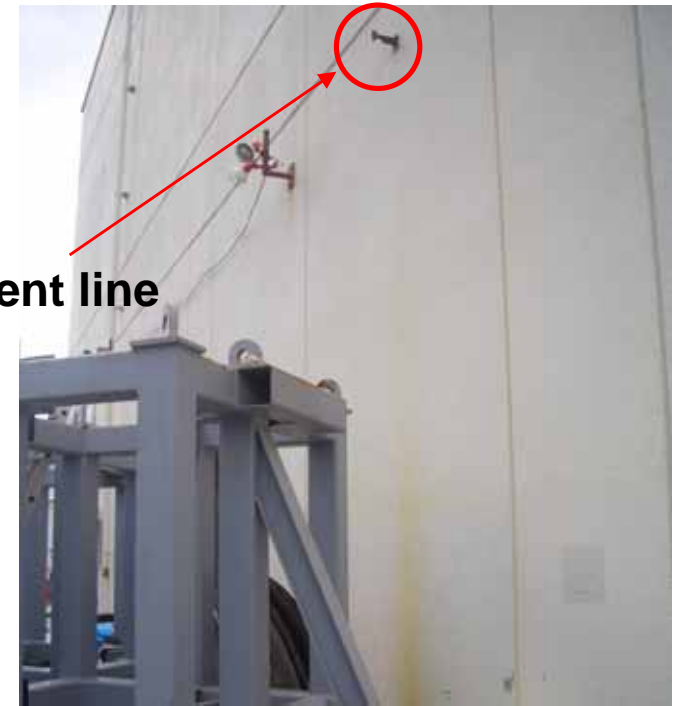
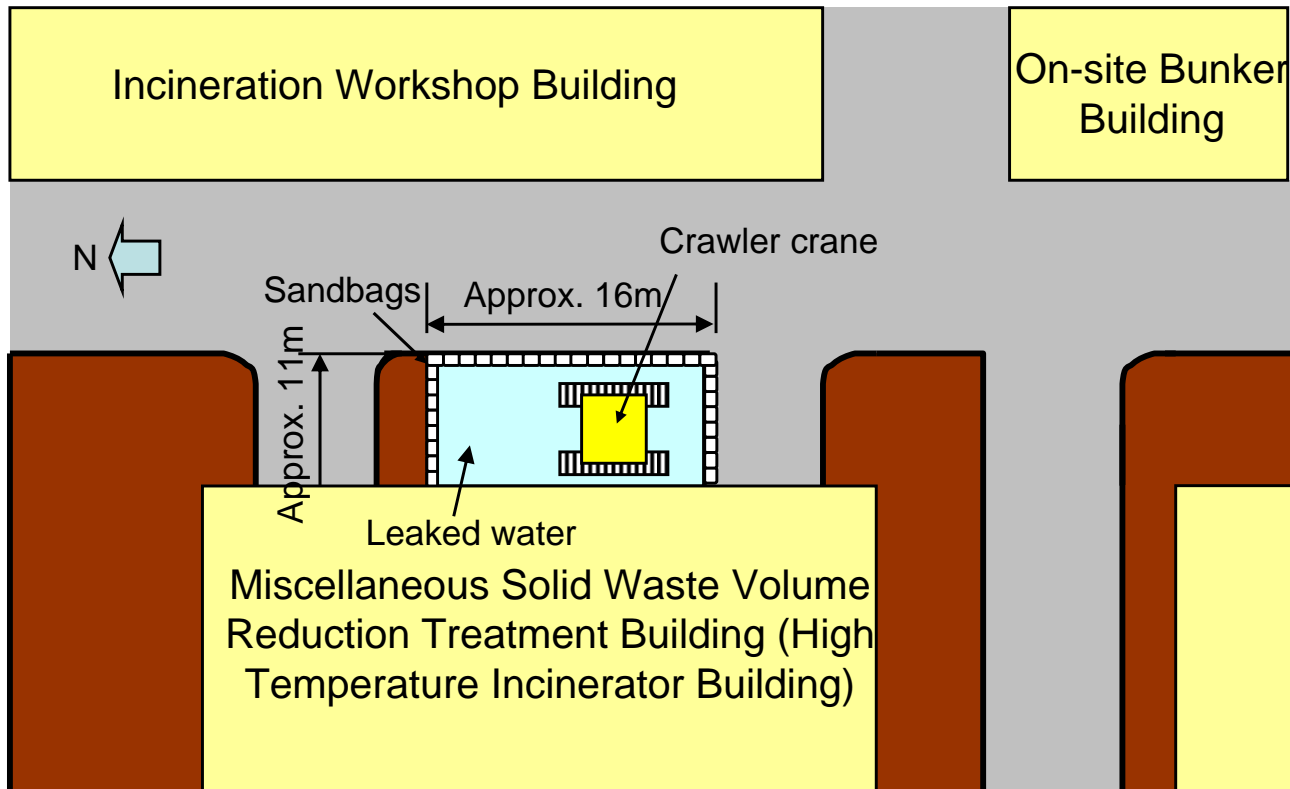
Cesium 134:  $3.7 \times 10^2 \text{Bq/cm}^3$

Cesium 137:  $6.5 \times 10^2 \text{Bq/cm}^3$

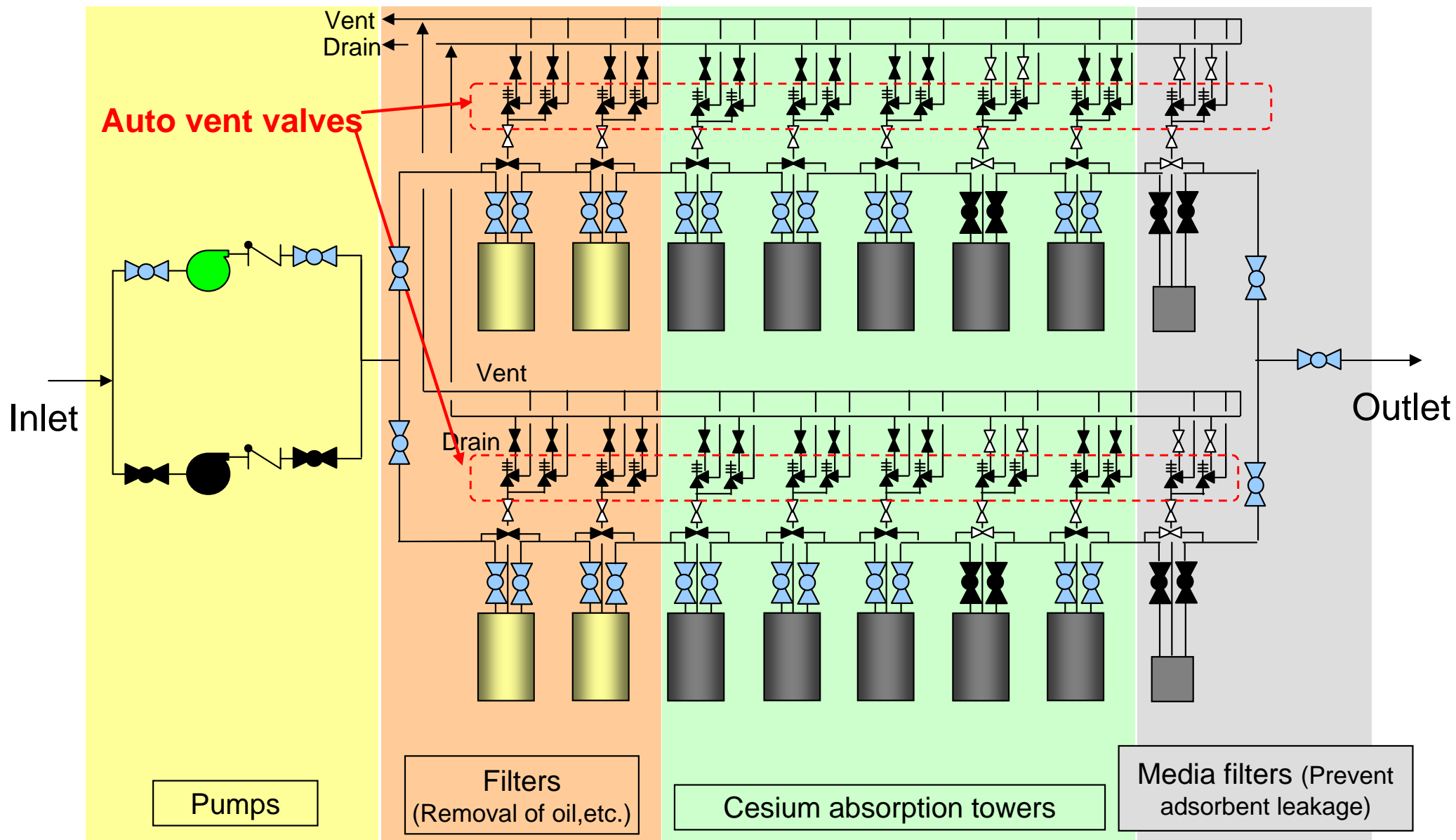
Cobalt 60:  $3.5 \times 10^0 \text{Bq/cm}^3$

Manganese 54:  $1.9 \times 10^0 \text{Bq/cm}^3$

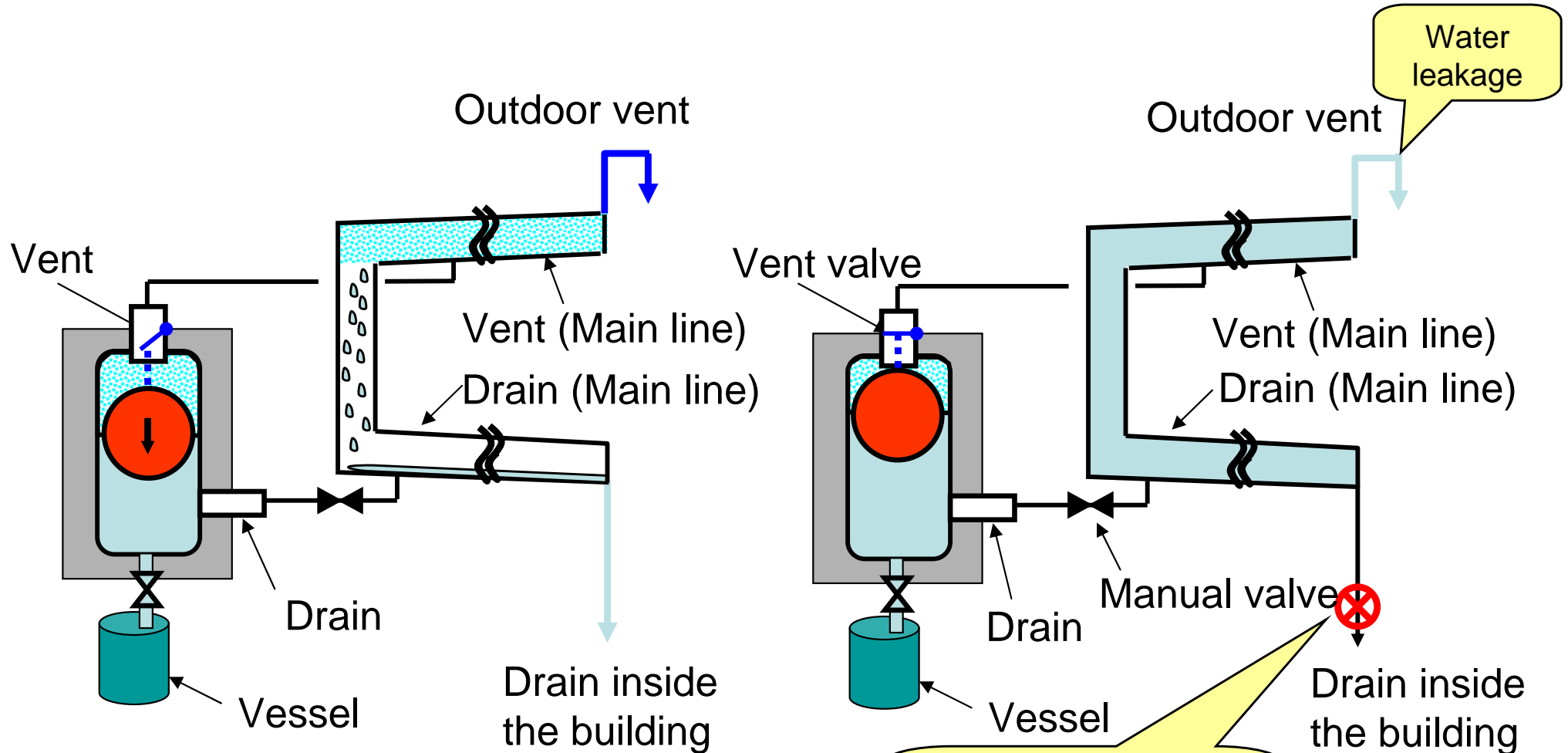
# Leakage Condition



# Overview of the Second Cesium Absorption Apparatus (SARRY)



# Vent Valve Operation Mechanism



**Absorption tower vent line**  
**(at normal times)**

**Absorption tower vent line**  
**(at the time of the leakage)**