Water Flow Identified at First Floor of Unit 3 Reactor Building

-Water which flows from near the Main Steam Isolation Valve Room to the Drainage Ditch on the Floor-

January 20, 2014

Tokyo Electric Power Company

東京電力 TEPCO

Overview

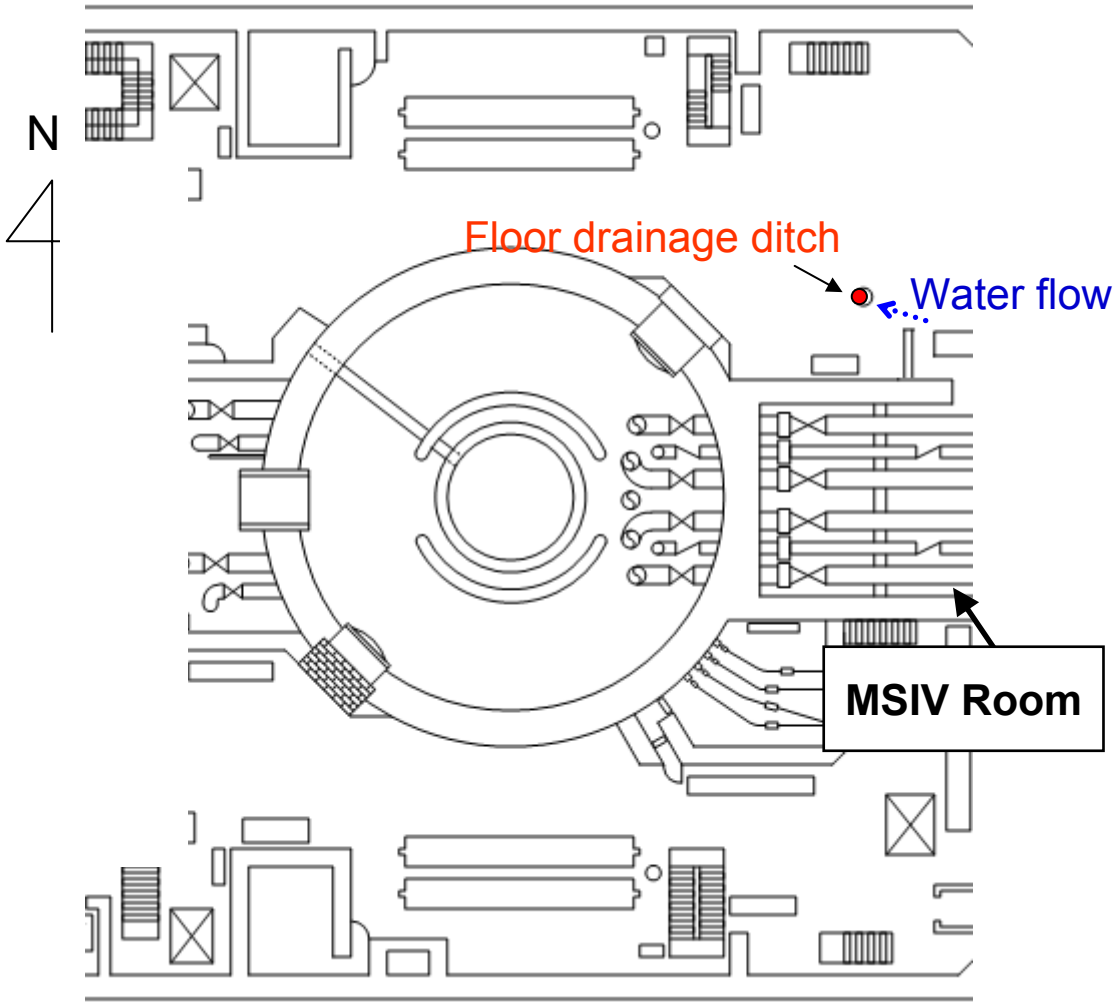
- At around 2:40 PM on January 18, a TEPCO employee found* a water flow from near the door of the main steam isolation valve room in the northeast area on the first floor of Unit 3 Reactor Building to the nearby drainage ditch installed on the floor.

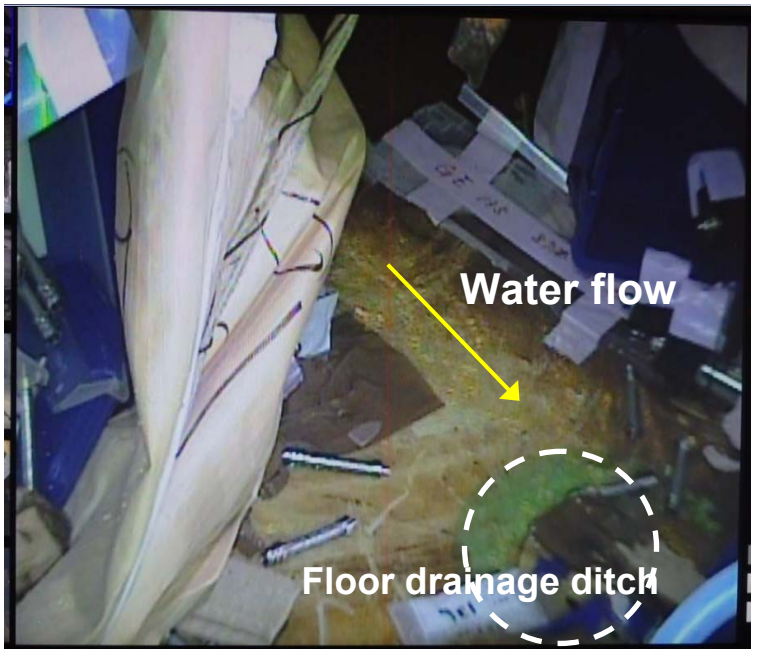
  *He was watching the live image on the screen which was sent by a debris-removal robot working in the Unit 3 Reactor Building

- The leakage water flows to the drainage ditch on the floor inside the Reactor Building. There is no fear of leaking to the outside of the Reactor Building.

- Neither remarkable changes in the indication value of the monitoring posts nor abnormalities of the plant parameters have been found.

Floor Plan





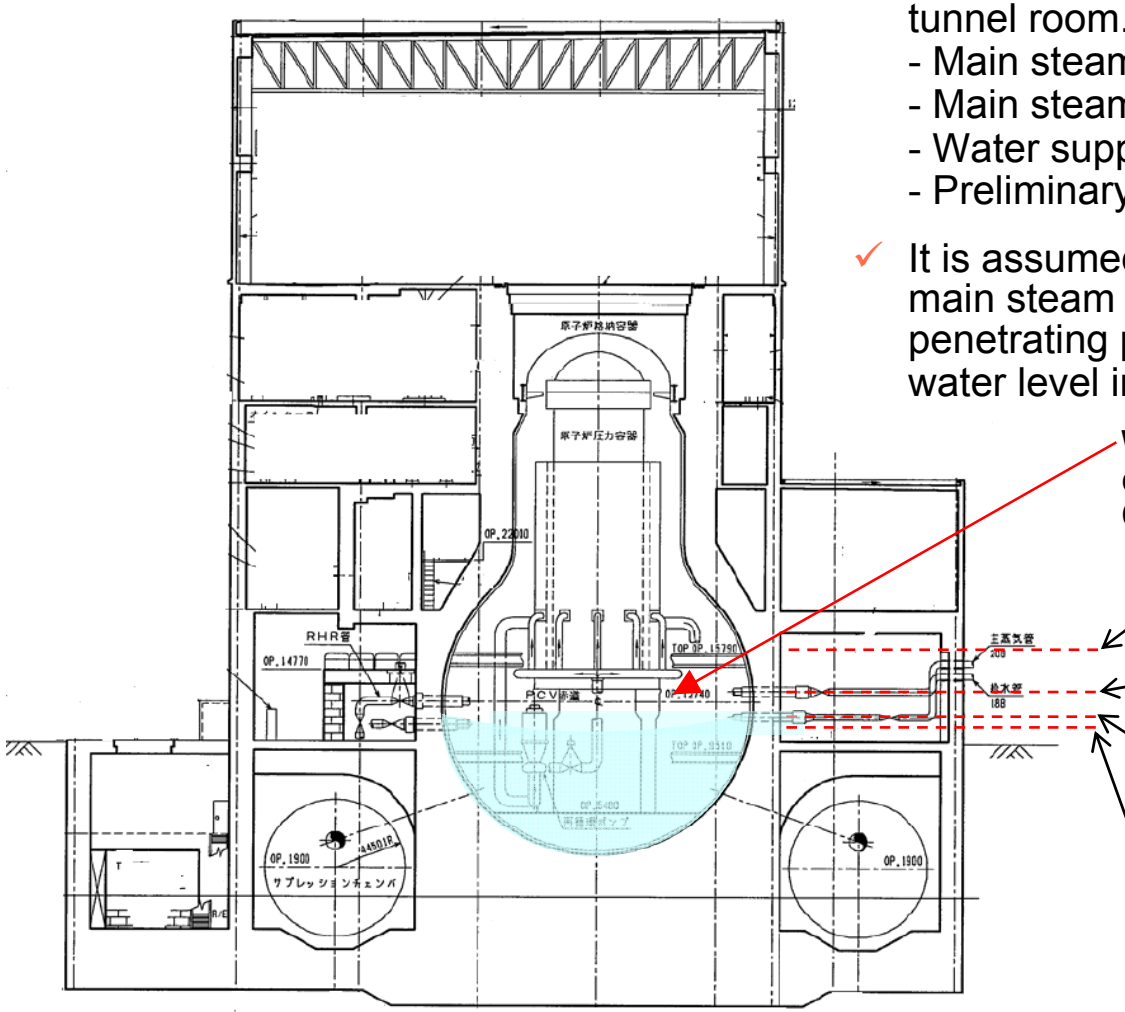
Floor plan of the first floor of Unit 3 Reactor Building

Results of the measurement analysis of the leaked water

Sampling	Time and date of sampling		Gross-β	Cs-134	Cs-137
			Bq/cm3	Bq/cm3	Bq/cm3
Leaked water obtained at the main steam isolation valve room on the first floor at the Unit 3 Reactor	Jan 19, 2014	11:20 AM	2.4E+04	7.0E+02	1.7E+03
Accumulating water on the basement floor of the Unit 3 Turbine Building	Dec 6, 2013	11:00 AM	5.7E+04	7.3E+03	1.8E+04
Water at inlet of desalination apparatus	Dec 10, 2013	10:06 AM	2.3E+04	6.2E-01	2.0E+00
Water at outlet of desalination apparatus	Dec 10, 2013	10:18 AM	2.8E+00	ND	ND

Specification of the leak path

- Pipe penetrating parts in PCV
  - ✓ There are all in 9 pipe penetrating parts in the MS tunnel room.
    - Main steam isolation system (X-7A to D)
    - Main steam isolation system drainage（X-8）
    - Water supply system (X-9A and B)
    - Preliminary penetration (X-46 and 47)
  - ✓ It is assumed that the main steam isolation system and main steam isolation system drainage (all in 5 penetrating parts) are located at the lower level than the water level in PCV.



Water level in PCV (estimated based on converted-pressure)
O.P.12020～12090

Preliminary: (X-46 and 47)
Height: O.P. Approx. 14800～15300

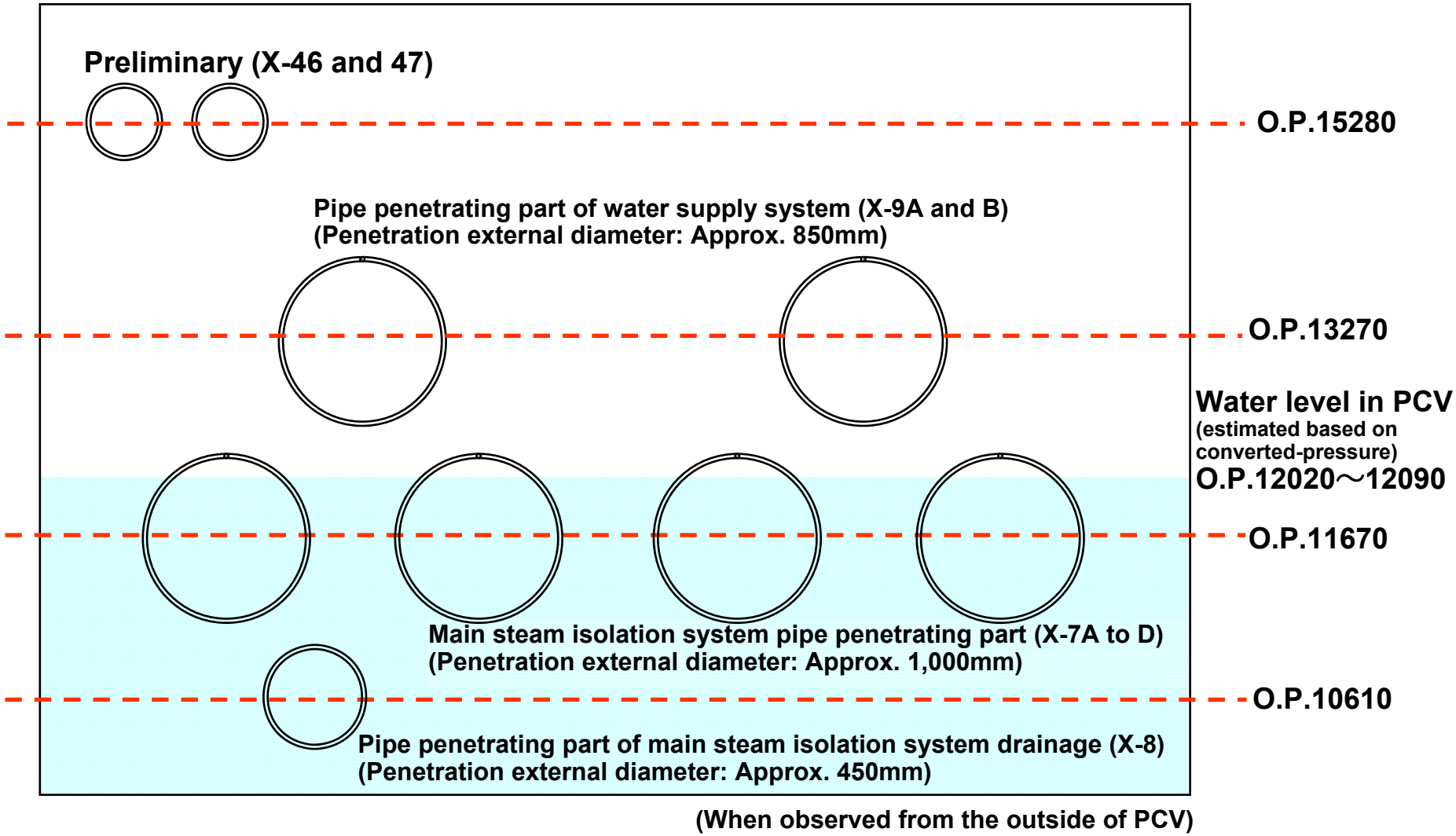
Pipe penetrating part of water supply system (X-9A and B)
Height: O.P. Approx. 12800～13700

Pipe penetrating part of main steam isolation system (X-7A to D)
Height: O.P. Approx. 11100～12200

Main steam isolation system drainage (X-8)
Height: O.P. Approx.10400～10800

Unit 3 Reactor Building [cross sectional]

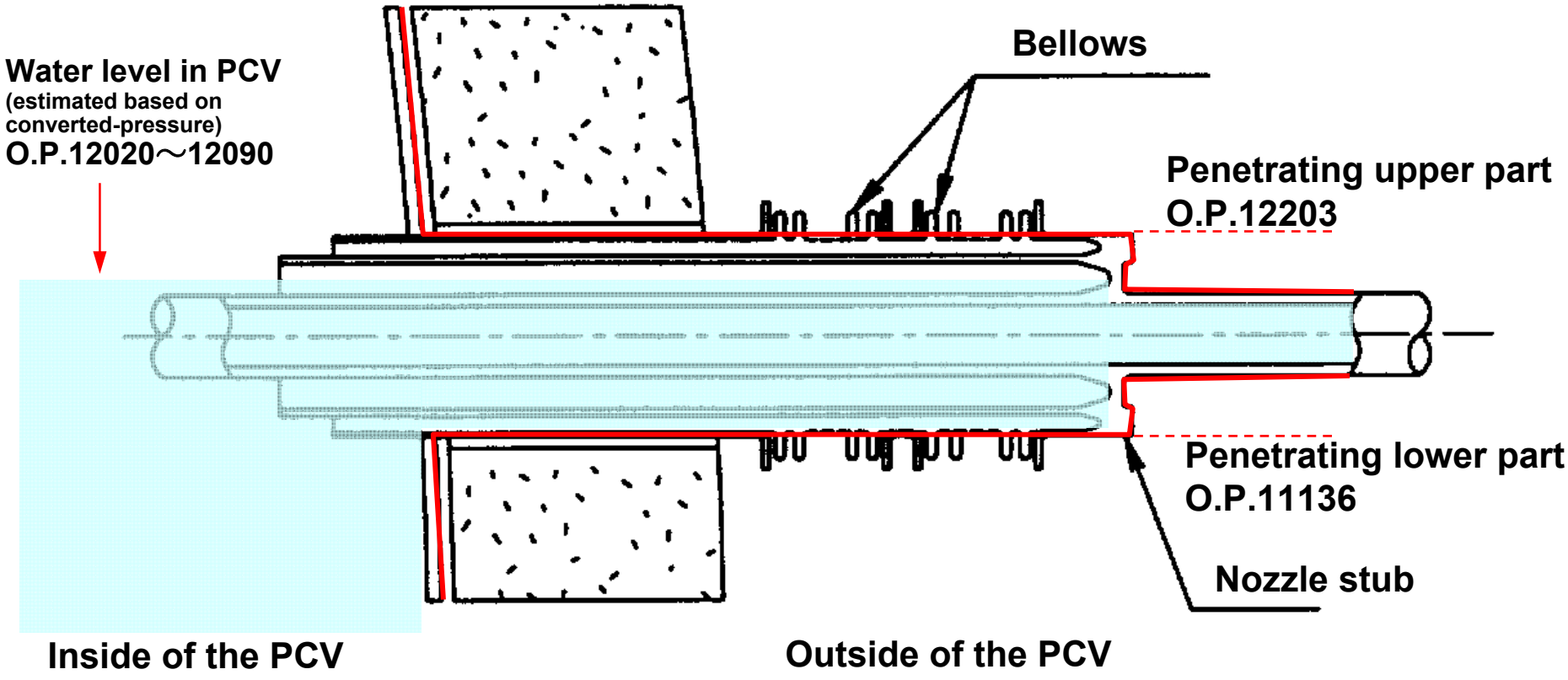
Specification of the leakage path



Pipe penetrating parts inside the MS tunnel room [cross sectional chart]

[Reference]

■ Pipe penetrating part (Bellows style)



Relation of heights of water level in PCV and pipe penetrating parts (X-7A to D) of main steam isolation system