Results of Investigation of the Lower Part of Unit 2 Vent Pipe at Fukushima Daiichi Nuclear Power Station

March 13, 2013
Tokyo Electric Power Company
Investigation Locations and Current Conditions (South-southwest Vent Pipe)

Date: March 13, 2013
Investigated area: Areas indicated by ▲

- ▲: Investigated this time
- ▲: Has not been investigated
- ▲: Has been investigated

Vent pipe targeted for investigation

Area where the quadrupedal walking robot reached
(Vent pipe investigation area)

- N: Manhole on the north side
- S/C: Manhole on the south side
- Investigation done on December 11
- Investigation done on March 5
- Investigation done on March 6
- Obstacles

Torus room (Plan view)

PCV (Cross section)

Lower part of the vent pipe (Enlarged)

- Edge of the vent pipe sleeve
- Edge of the sand cushion drain pipe
- Lower part of the vent pipe bellows cover: No water leakage found

No water leakage (water flowing) was found on the concrete stage (*) on the lower part though the condition was not directly checked.

Photo taken on March 13, 2013 by TEPCO
Investigation Locations and Current Conditions (West-southwest Vent Pipe)

Date: March 13, 2013
Investigated area: Areas indicated by △

- Investigated this time
- ▲: Has not been investigated
- ▼: Has been investigated

**Area where the quadrupedal walking robot reached (Vent pipe investigation area)**

**Torus room (Plan view)**
- Vent pipe targeted for investigation
- Investigation done on December 11
- Investigation done on March 6
- Manhole on the south side
- Obstacles

**PCV (Cross section)**
- RPV
- PCV

**Lower part of the vent pipe (Enlarged)**
- No water leakage (water flowing) was found on the concrete stage (*) on the lower part though the condition was not directly checked.

- △: Edge of the vent pipe sleeve
- ▽: Edge of the sand cushion drain pipe

- △: Lower part of the vent pipe bellows cover: No water leakage found

Photo taken on March 13, 2013 by TEPCO
The results of investigation of the lower part of the vent pipe performed today are as follows.

1. No water leakage from the lower part of the vent pipe bellows cover was found.
2. As no water leakage (water flowing) was found on the concrete stage on the lower part, it is considered that there is no leakage from the vent pipe sleeve and the sand cushion drain pipe as well. However, the images and sound (acquired by a small car equipped with a recorder) will be investigated in detail.

The investigation utilizing a quadrupedal walking robot performed today was executed without trouble.

### Exposure dose

Exposure dose at the investigation of the lower part of the vent pipe (March 13)
- Planned dose: 3mSv
- Actual dose (Max.): 1.08mSv