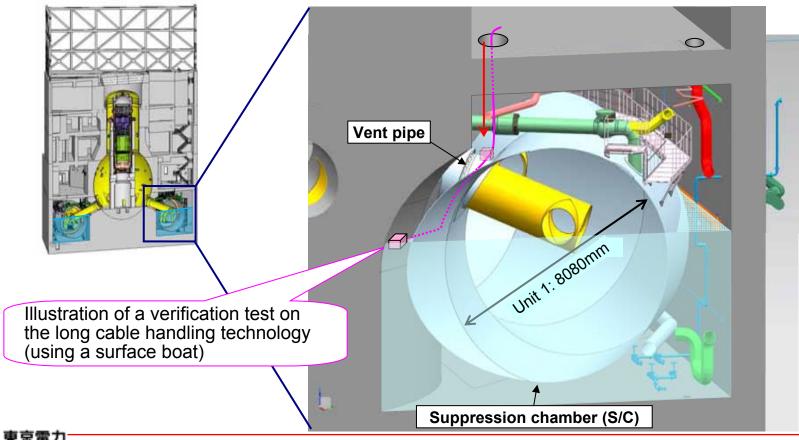
## Results of Investigation around Lower Parts of Unit 1 Vent Pipes at Fukushima Daiichi NPS (Second Day)

November 14, 2013
Tokyo Electric Power Company



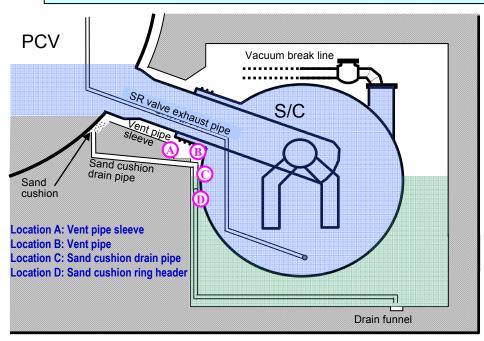
In the Unit 1 Reactor Building, we have conducted a verification test on a long cable handling technology that has been developed in a FY2012 technology platform establishment project subsidized by the Agency for Natural Resources and Energy for containing a power nuclear reactor accident (swimming investigation robot technology development toward advancement of the remote technology platform) with the support of "Underwater Swimming Robot WG (Project Manager: Prof. Ura from Kyusyu Institute of Technology)". This report provides investigation results obtained in the test.

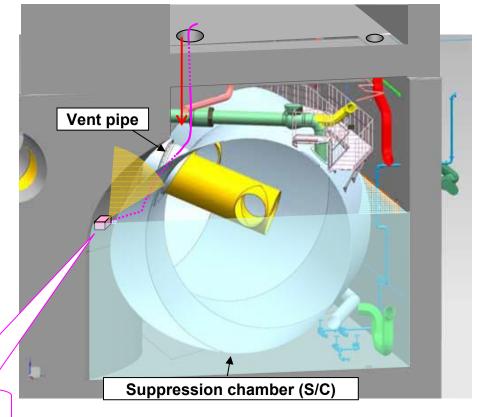




1. Outline

Leakage from the vent pipes and the sand cushion drain pipes, and the external conditions of these pipes were checked using images captured by cameras mounted on a surface boat. At the same time, dose measurement was conducted around the lower parts of the vent pipes.



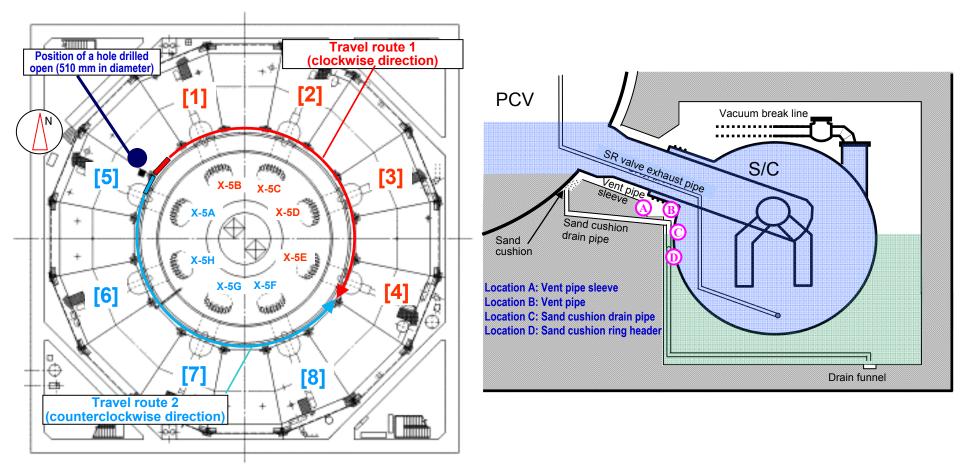




Surface boat

3

- Investigation date: November 14, 2013
- Investigated locations: Locations [5] to [8] along the travel route 2



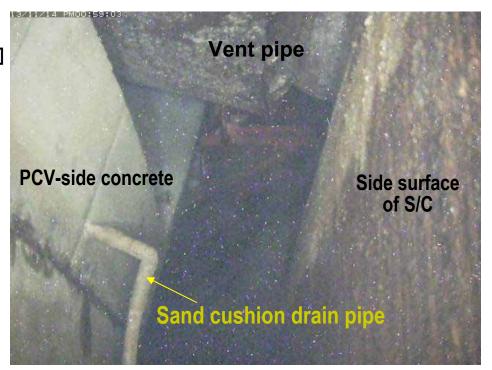


Surface boat travel routes

Investigation results on the lower parts of the vent pipes and the sand cushion drain pipes:

As a result of the investigations of the locations [5] to [8], neither leakage nor damage to the sand cushion drain pipes were found.

(Representative example)
Condition of the vent pipe at [5]



[Dose measurement results]

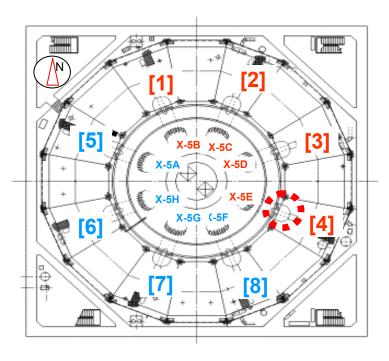
Approximately 0.9 to 2.0 Sv/h along the travel route.

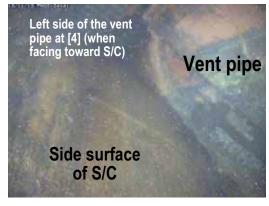


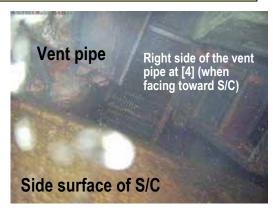
## 4-1. Summary of the investigation results for the first and second days

[Investigation results on the lower parts of the vent pipes]

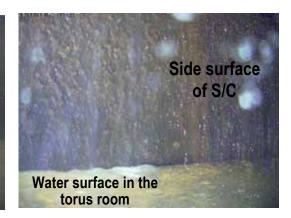
Leakage from the upper part (of the S/C facing side) of the vent pipe at the location [4] was found.







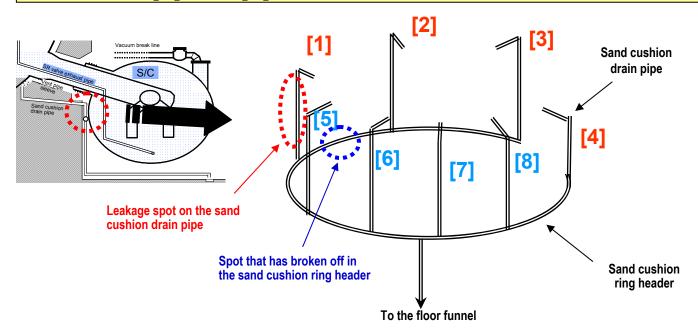


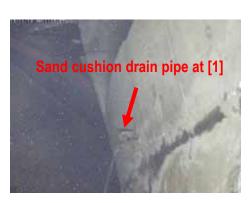


## 4-2. Summary of the investigation results for the first and second days

[Investigation results on the sand cushion drain pipes]

- Damage and leakage were found on the sand cushion drain pipe at [1].
- The sand cushion ring header was found to have been damaged between [1] and [2].







- \* The sand cushion ring header has a shape of the letter "C". (The ring is discontinuous and has its ends at the locations [3] and [4].)
- Information obtained in this investigation will be utilized in future consideration of investigation methods, fuel debris removal methods, etc.