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

November 13, 2013
Tokyo Electric Power Company
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.
2. Investigated locations

- Investigation date: November 13, 2013
- Investigated locations: Locations [1] to [4] along the travel route 1

Surface boat travel routes

- Travel route 1 (clockwise rotation)
- Travel route 2 (counterclockwise rotation)
3-1. Investigation results

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.
- No leakage was found at the locations [1] to [3]
3-1. Investigation results

Investigation results on the sand cushion drain pipes:
- The sand cushion drain pipe at the location [1] has been damaged, and leakage was found there.
- At the locations [2] to [4], there has been no coming off of the drain pipes in the air-surrounded part, and therefore, no leakage was found.

Sand cushion drain pipe at [1]

Sand cushion drain pipe at [3]

Sand cushion drain
Sand cushion ring header

Toward floor funnel
## 4. Summary

### [Dose measurement results]
- Approximately 0.9 to 1.8 Sv/h along the travel route.

### [Results of leakage spot investigation]
- Leakage from the upper part (of the S/C facing side) of the vent pipe at the location [4] (X-5E) was found.
- Leakage from the sand cushion drain pipe of the vent pipe at the location [1] (X-5B) was found.

We will continue the investigation for the vent pipes at the locations [5] to [8].
5. Future schedule

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<tr>
<th>November</th>
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<tbody>
<tr>
<td>1</td>
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<tr>
<td><img src="image1" alt="Travel route 1" /></td>
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<tr>
<td><img src="image2" alt="Travel route 2" /></td>
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<td><img src="image3" alt="Optional extra days" /></td>
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- Investigation of vent pipe lower part

Future schedule