

**Fukushima Daiichi Nuclear Power Station
Unit 1 Reactor Building Torus Room
Investigation Result (June 26, 2012)
(Pipe Penetration Area on the First Floor of R/B)**

**June 27, 2012
Tokyo Electric Power Company**

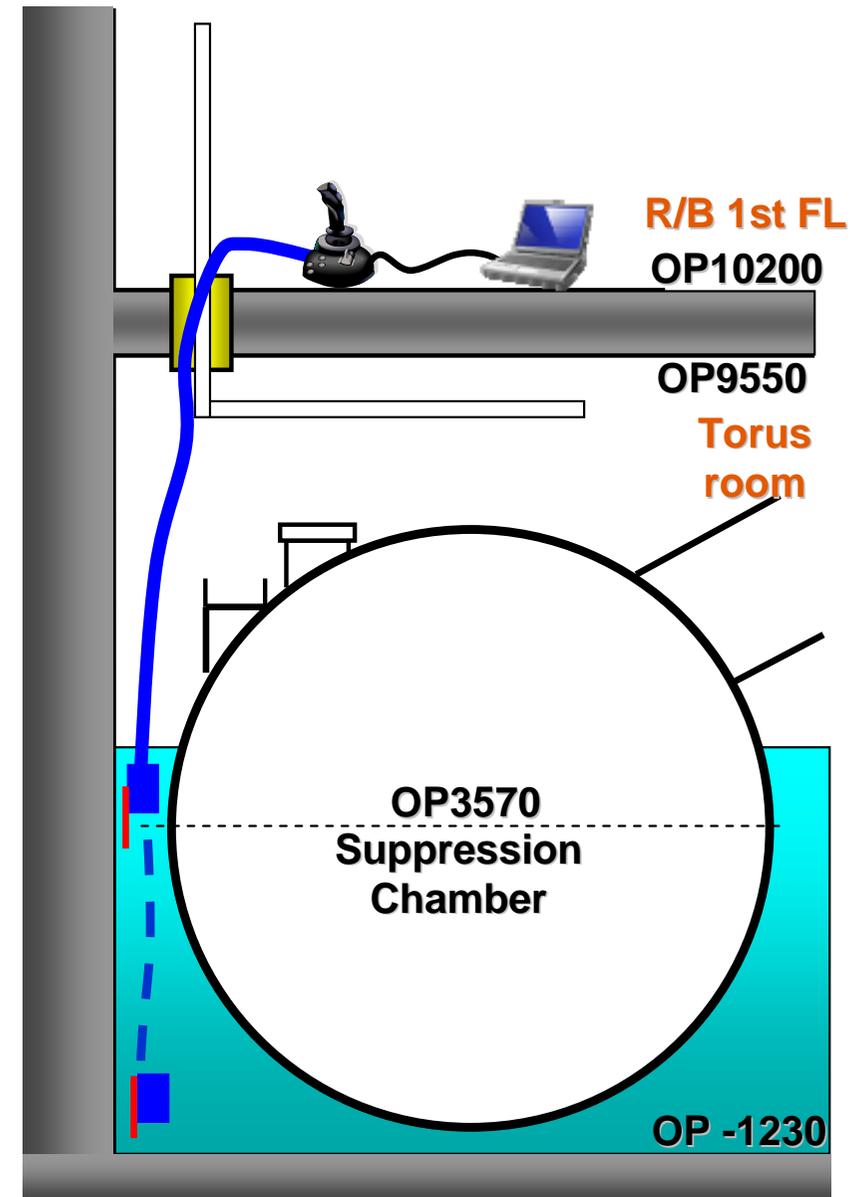
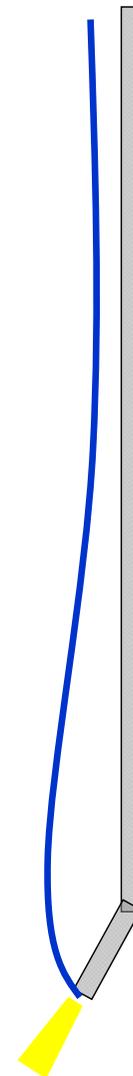


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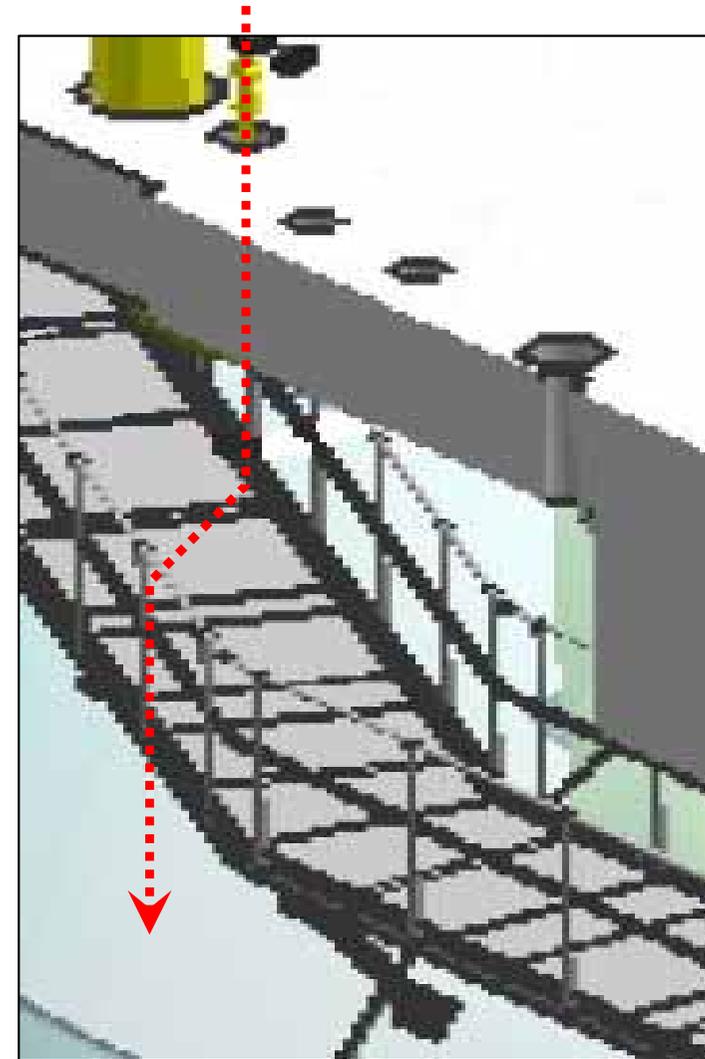
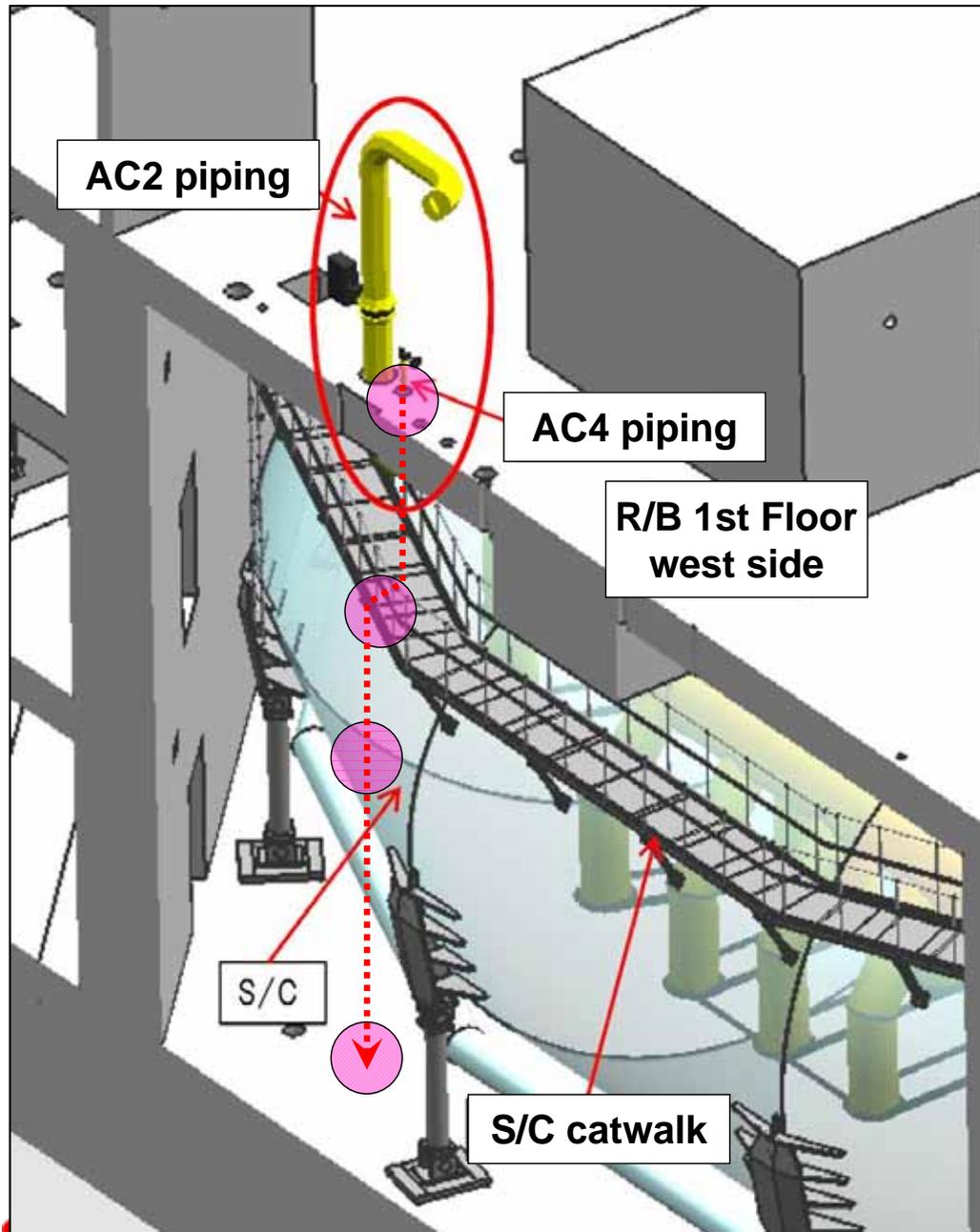
1. Investigation Method

CCD camera, thermometer and dosimeter were inserted from the pipe penetration opening

* The gap between the pipe and the floor penetration sleeve: Approx. 50mm



2. CCD Camera Insertion Route



The camera needs to be inserted so that it avoids the catwalk handrail. (It interferes with the handrail if it's inserted straight down.)

3. Result Summary

1. Accumulated water level

Approx. OP. 4,000

2. Accumulated water temperature

Approx. 32-37 while the Torus Room temperature was approx. 28.8 .

3. Radiation dose of the accumulated water

The radiation dose measured in the Torus Room was 19.5 - 10,300mSv/h. However, the dosimeter seems to have failed as it indicated order values of 10^8 - 10^9 mSv/h during the measurement and the values did not change until the dosimeter was brought back up.

4. Transparency of the accumulated water

Transparency confirmed at (at least) 60cm down from the surface

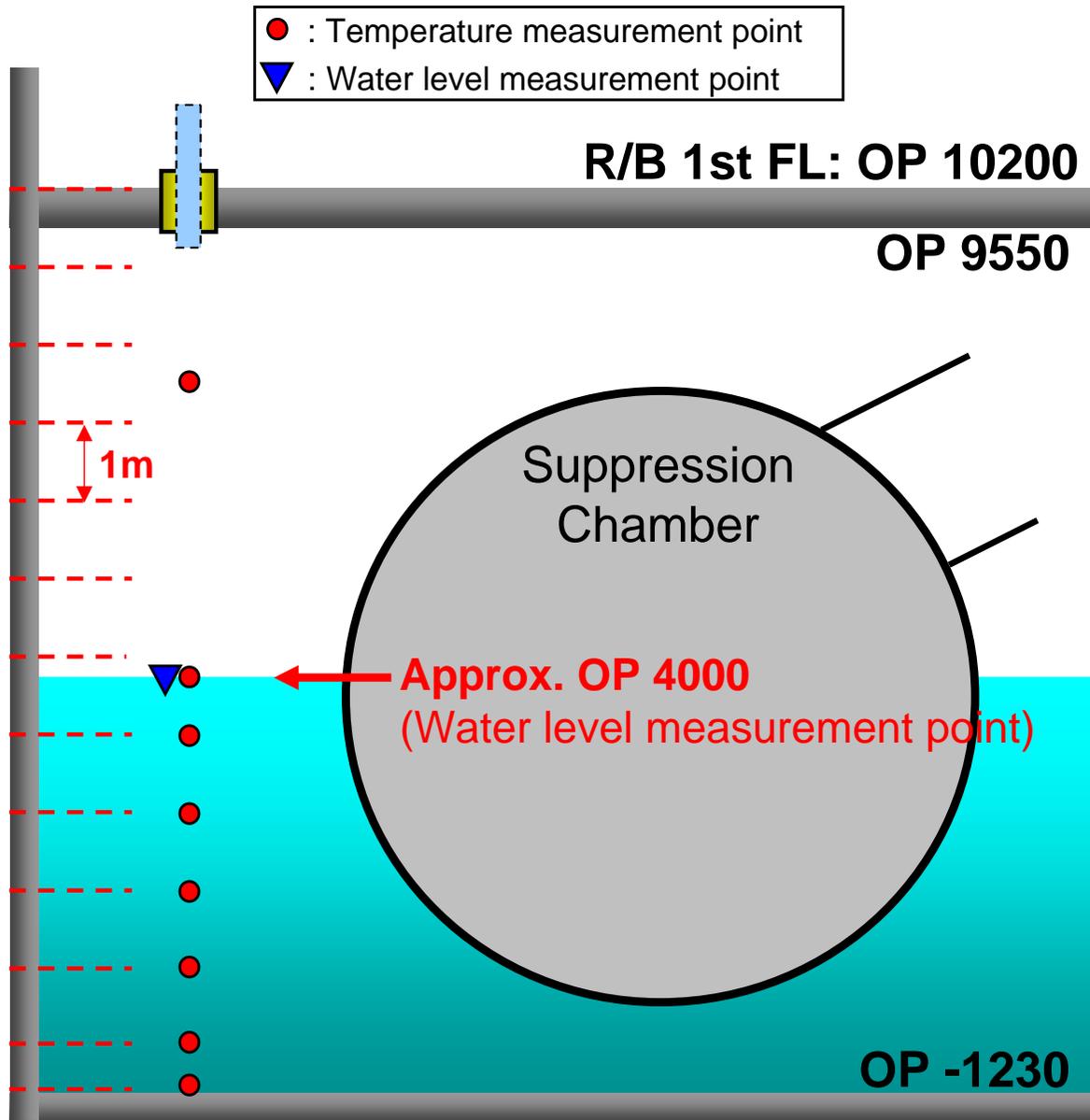
5. Sediment on the bottom of Torus Room

Floating sediment confirmed when the equipment touched the wall or the bottom surface

6. Property of the accumulated water

Sampling of the accumulated water was not conducted.

(Reference) Water Level/Temperature Measurement Result



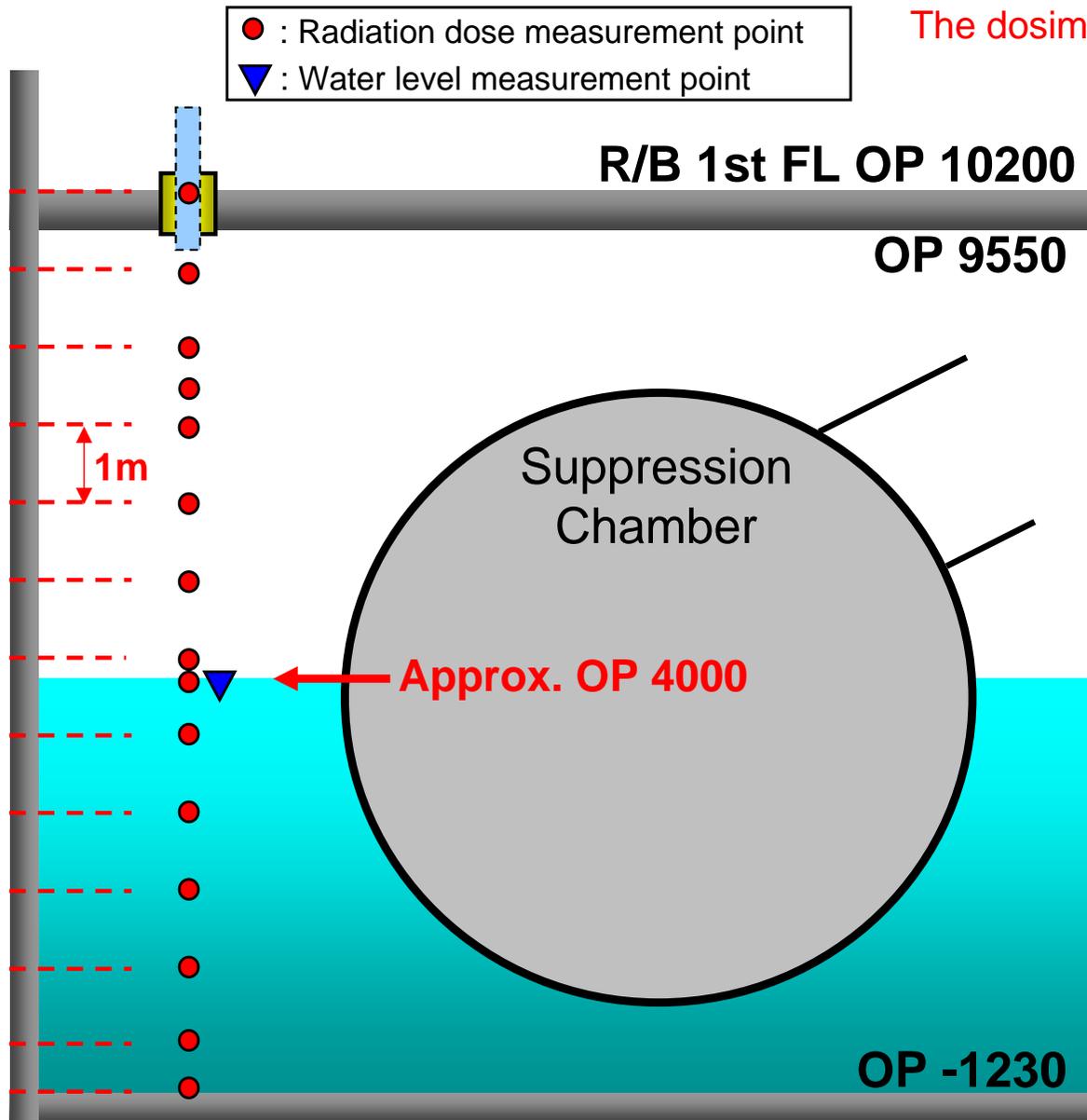
| | | |
|--|----------------|-------------|
| | OP.7700 | 28.8 |
| | OP.4000 | 37.2 |
| | OP.3200 | 34.0 |
| | OP.2200 | 34.0 |
| | OP.1200 | 34.8 |
| | OP. 200 | 34.1 |
| | OP. -800 | 32.4 |
| | OP.-1230 | 32.0 |

*R/B ambient temperature: **Approx. 22**

*Water level at the triangle corner of the mid basement: **OP.4617**

*Error must be taken into account when calculating OP as it is calculated based on the length of cable inserted.

(Reference) Radiation Dose Measurement Result

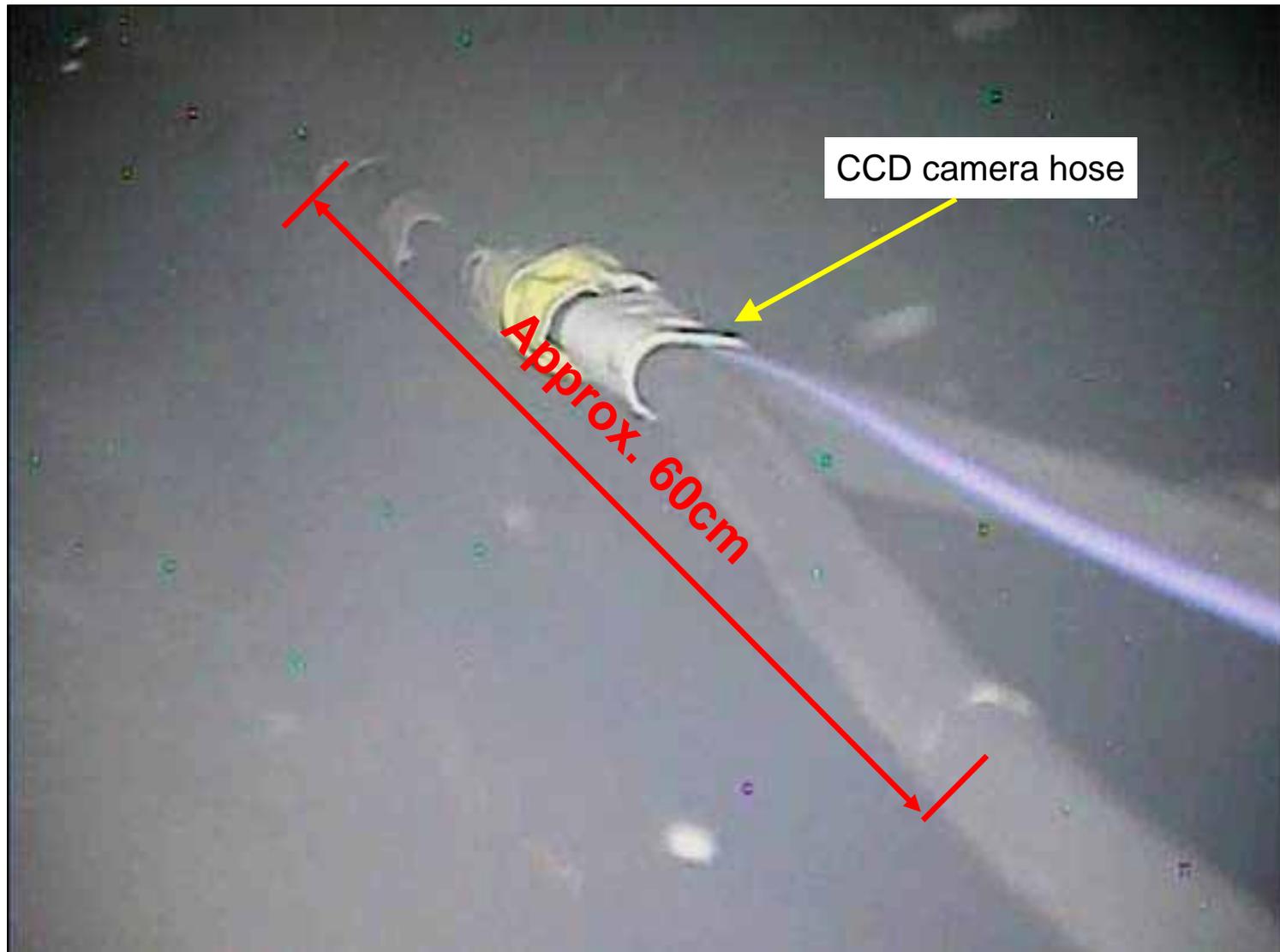


The dosimeter seems to have failed during the measurement.

| | | |
|--|----------------|---|
| | OP.10200 | 19.5mSv/h |
| | OP.9200 | 625mSv/h |
| | OP.8200 | 1290mSv/h |
| | OP.7700 | 1440mSv/h |
| | OP.7200 | 1410mSv/h |
| | OP.6200 | 2030mSv/h |
| | OP.5200 | 4520mSv/h |
| | OP.4200 | 10300mSv/h |
| | OP.4000 | 8190mSv/h |
| | OP.3200 | 3550mSv/h |
| | OP.2200 | 2770mSv/h |
| | OP.1200 | Indicated order values of $10^8 - 10^9$ |
| | OP. 200 | |
| | OP. -800 | |
| | OP.-1230 | |

*Error must be taken into account when calculating OP as it is calculated based on the length of cable inserted.

(Reference) Transparency of the Accumulated Water



(Reference) Sediment on the Bottom of the Torus Room

