Inspection Results of Unit 3PCV Gas Control System Duct at Fukushima Daiichi Nuclear Power Station

< Reference >
November 28, 2012
Tokyo Electric Power Company

Outline

■ Purpose

Inspect the duct condition in Unit 3 Reactor Building in response to the duct damage found at the PCV gas control system.

■ Work performed

- Inspected the PCV gas control system duct
- Measured the atmosphere dose rate and inspected the floor condition in the northeast area on the first floor of the Reactor Building

■ Number of workers involved

TEPCO: 9 (3 at the site, 6 at the Main Anti-earthquake Building)
Cooperative company: 3 (at the Main Anti-earthquake Building)

■ Equipments used

Packbot: 1, Quince2: 1
(As FRIGO-MA could not be used due to a failure, the robots above were used)

■ Hours

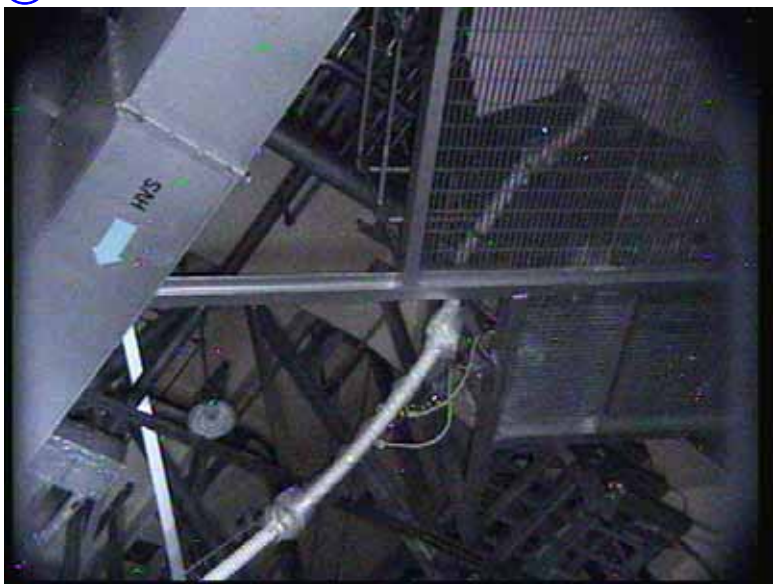
Tuesday, November 27
11:25 AM: The robots entered the Reactor Building
1:06 PM: The robots left the Reactor Building

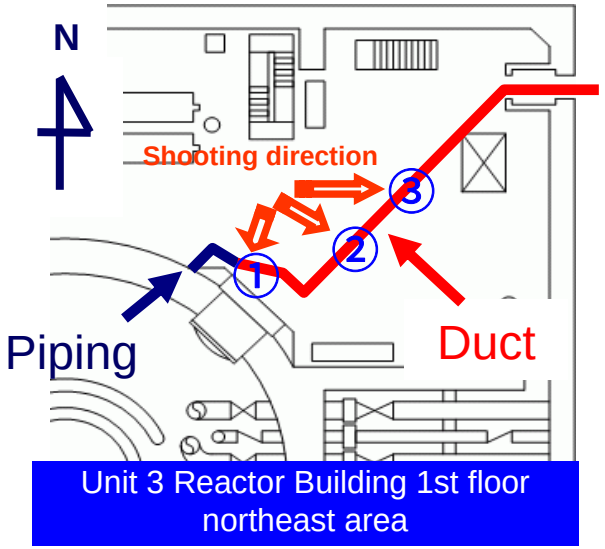
■ The maximum exposure dose

Workers: 0.52mSv (Planned: 2.0mSv)
Robots:
650.0mSv (Packbot), 185.2mSv (Quince2)

Inspection Results of the PCV Gas Control System Duct

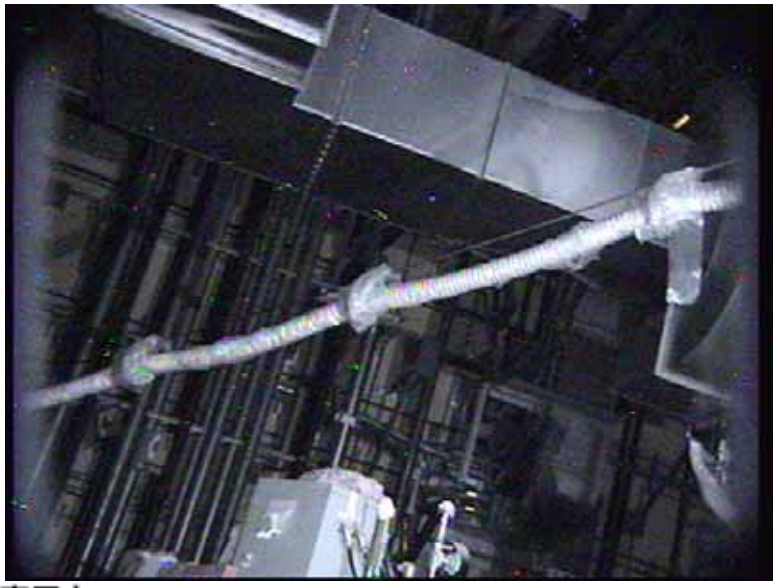
①



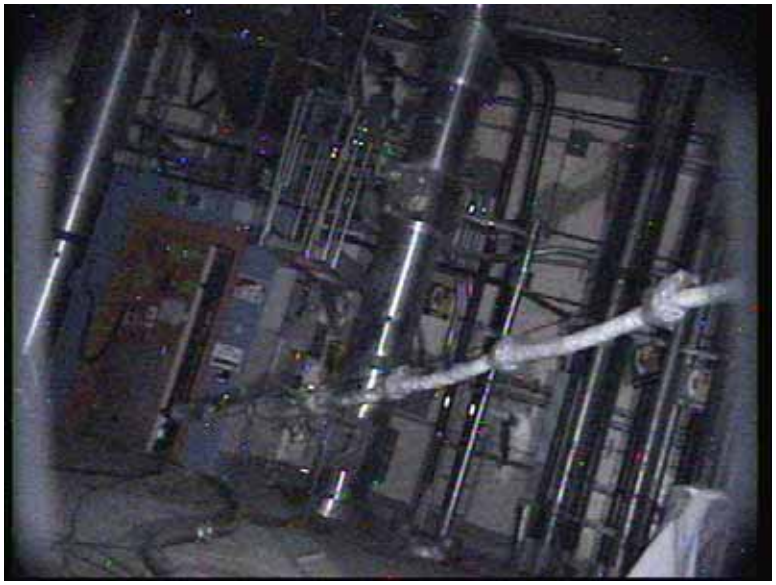


As a result of inspection, no abnormality was found.

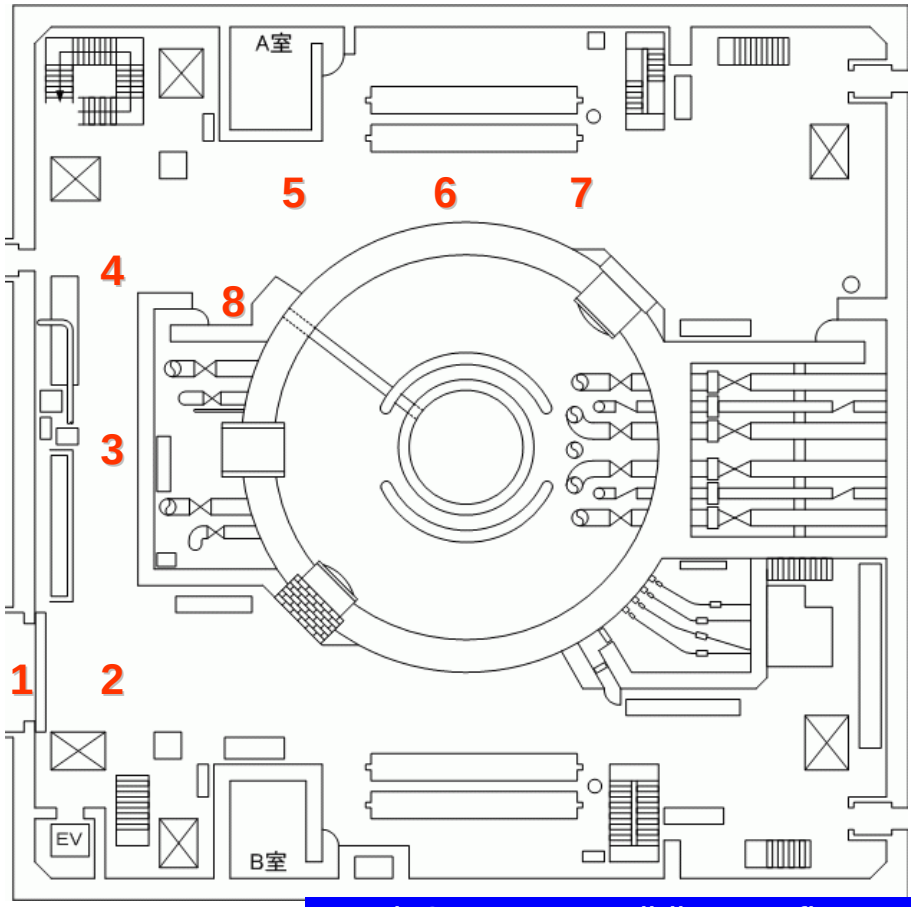
②



③



Atmosphere Dose Rate Measurement on the First Floor of the Reactor Building



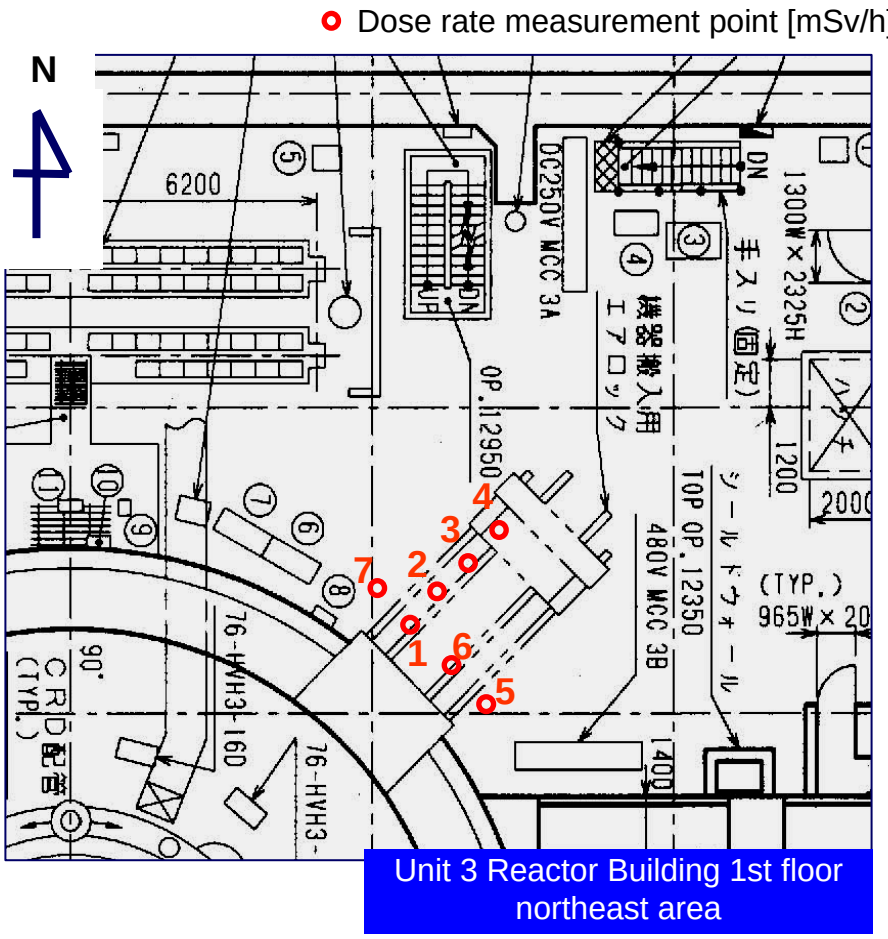
Unit 3 Reactor Building 1st floor

Atmosphere dose rates along the robot access route

Point	Dose rate [mSv/h]
1	8.0
2	55.0
3	35.0
4	27.0
5	24.0
6	36.0
7	90.0
8	22.0

*Near the PCV hatch, temperature: 14℃, Humidity: 40.8%

Atmosphere Dose Rates in the Northeast Area of the Reactor Building First Floor



Unit 3 Reactor Building 1st floor northeast area

Atmosphere dose rates in the northeast area

Point	Measurement height [0.4m] [mSv/h]	
	This time (Nov. 27, 2012)	(Reference) Previous measurement (Nov. 14, 2012)
1	2290	870
2	1740	800
3	1510	750
4	580	650
5	170	180
6	200	120
7	98	180
1 (Floor surface)	4780	1300*

* Measured on the rail surface when inspecting the area near the rail.