< Reference >
July 12, 2012
Tokyo Electric Power Company

Fukushima Daiichi Nuclear Power Station Unit 3 Reactor Building Basement Torus Room Investigation



Investigation Outline

Purpose

As water leak investigation and water stop measure implementation are planned for the area from PCV / Reactor Building to the Turbine Building, it is critical to understand the current condition of the Torus Room. A robot will investigate the inside of Torus Room with high radiation dose to obtain inputs to be leveraged for planning the water leak investigation and water stop measures.

Investigation Items

The following will be done in the Torus Room in Unit 3 Reactor Building basement.

-Visual confirmation (Acquire photos and moving images)

-Dose rate measurement

-Collect sound samples in the Torus Room

Equipment: Remote control robot (Survey runner)

Members involved: 11 TEPCO employees

Investigation date: Wednesday, July 11, 2012

11:03 AM: Survey runner entered R/B

2:09 PM: Cable communication of the survey runner interrupted

Planned expose dose

Planned exposure dose [mSv]	Maximum exposure dose [mSv]	Number of people	Assigned roles
2	0.58	5	Robot operation, preparation, carrying the robot inside T/B
8	5.32	6	Carrying the robot through the triangle corner, opening doors

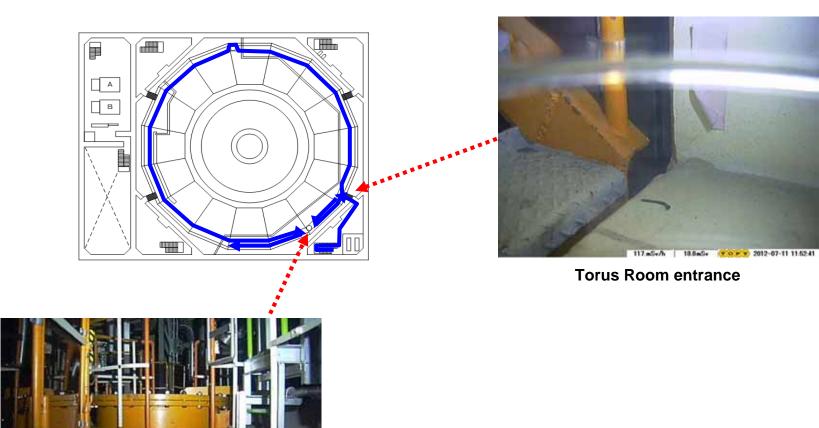
Investigation Result (Dose Rate)

Access hatch Dose rate Dose rate Point Point Remark Remark [mSv/h] [mSv/h] #5 #4 #6 Side of the #3 #7 access hatch #2 #8 #9 Side of the access hatch #16 #10 #15 #14 #12 Access hatch The robot was unable to go through the side of the access hatch as it was too narrow Location where the cable communication of survey runner was interrupted



Investigation Result (Images) 1/2

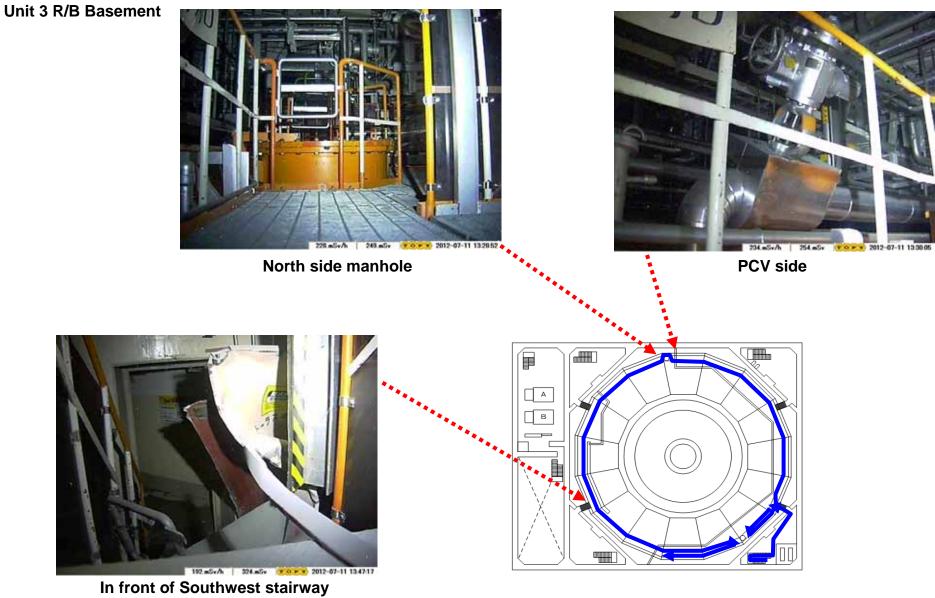
Unit 3 R/B Basement



Southeast side manhole



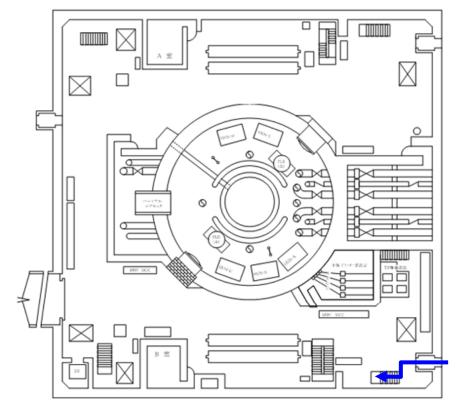
Investigation Result (Images) 2/2

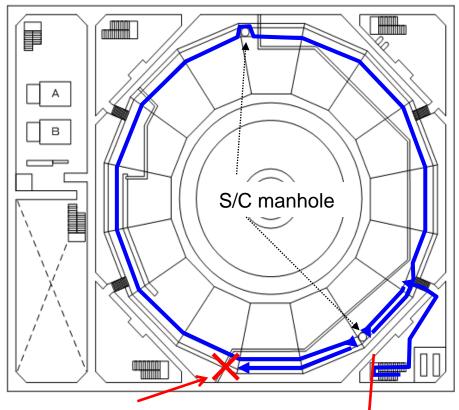


Access Route for the Robot

R/B 1st floor

R/B Basement





Location where the cable communication of survey runner was interrupted

The robot was unable to go through the side of the access hatch as it was too narrow

----: Access route