# Results of Investigation of the Personnel Access Lock Room on the First Floor of Unit 1 Reactor Building at Fukushima Daiichi Nuclear Power Station

# April 9, 2013 Tokyo Electric Power Company



# **Overview of the Investigation**

#### Purpose

Measure the ambient dose rate and investigate the surrounding area of the PCV penetration in the personnel access lock room in the Reactor Building via a robot. The results obtained will be utilized for the future PCV investigation and consideration of repair methods.

#### Investigation items

Investigation of the personnel access lock room on the first floor of Unit 1 Reactor Building

- Dose rate measurement
- Visual inspection (Conditions of the PCV penetration, the floor and the ceiling)
- Measurement of temperature and humidity

#### Workers involved

TEPCO employees: 8 (4 at the site and 4 at the Main Anti-earthquake Building) Cooperative company employees: 3 (at the Main Anti-earthquake Building)

#### Equipment used

Remotely controlled robot FRIGO-MA: 1, Packbot: 1

#### Day and time of investigation

Tuesday, April 9 11:29 AM: Robot entered the Reactor Building

2:21 PM: Robot left the Reactor Building

#### Maximum radiation exposure dose

Workers: 0.72mSv (Planned dose: 7.0mSv) Robots: FRIGO-MA: 57mSv, Packbot: 210mSv



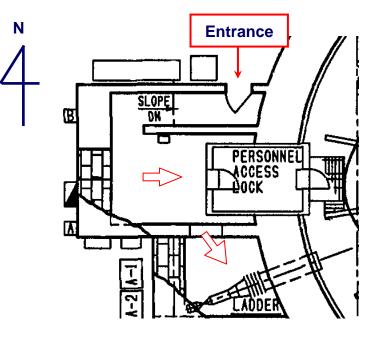
**FRIGO-MA** 



### **Condition of the Personnel Access Lock Room (Full-view)**







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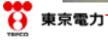
## **Condition of the Personnel Access Lock Room (Ceiling)**

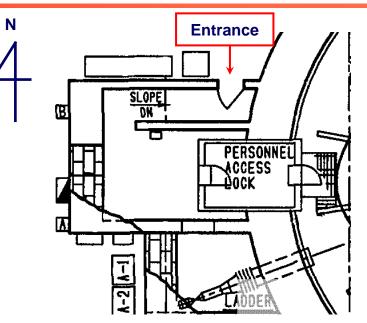
### Ceiling



### Ceiling







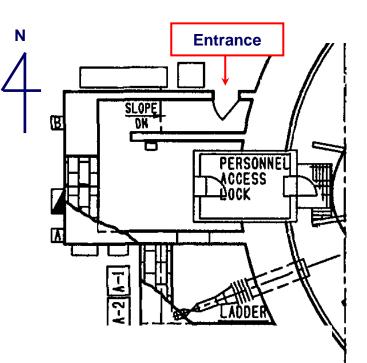
Ceiling



### **Condition of the Personnel Access Lock Room (Floor)**

Floor





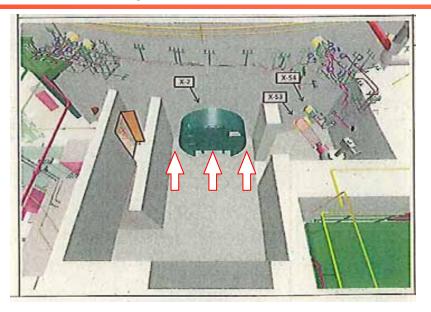
Floor





### **Condition of the Personnel Access Lock Room (Personnel Access Lock)**





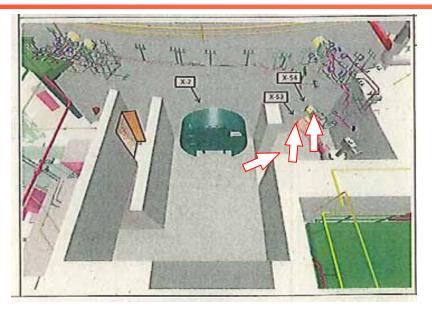






### **Condition of the Personnel Access Lock Room (Penetration)**







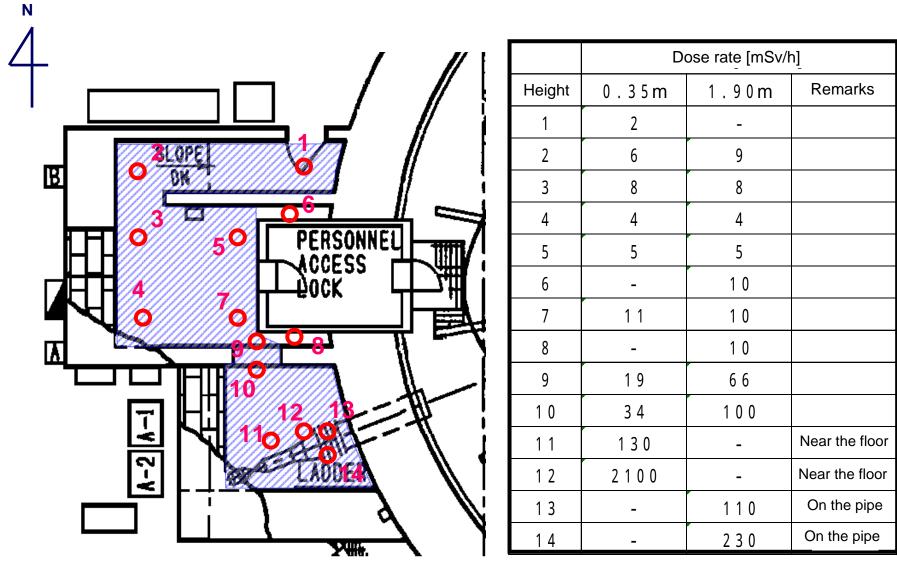




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## **Ambient Dose Rates in the Personnel Access Lock Room**



: Scope of investigation by the robot

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Inside the personnel access lock room Temperature: 14 , Humidity: 50%