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Results of Investigation of Unit 2 Reactor Building Operation Floor Utilizing a Gamma Camera

February 22, 2013

Tokyo Electric Power Company



東京電力

Outline of Investigation

■ Purpose

As the atmosphere dose in the operation floor (fifth floor) of Unit 2 Reactor Building needs to be reduced in order to prepare for fuel removal planned in the future, decontamination and shielding measures are being planned. For effective and efficient planning of measure implementation, the relative intensity and distribution of radiation on the surface were investigated mainly in the upper part of the reactor well utilizing a gamma camera.

■ Investigation

A platform was installed in the east side of Unit 2 Reactor Building and the radiation released from the target surface was measured at the blow-out panel opening on the operation floor utilizing a gamma camera (γ-eye II developed by the JAEA). The investigation results will be analyzed to obtain the radiation distribution on the target surface.

■ Number of workers involved

TEPCO: 7, Cooperative company: 13

■ Date and time

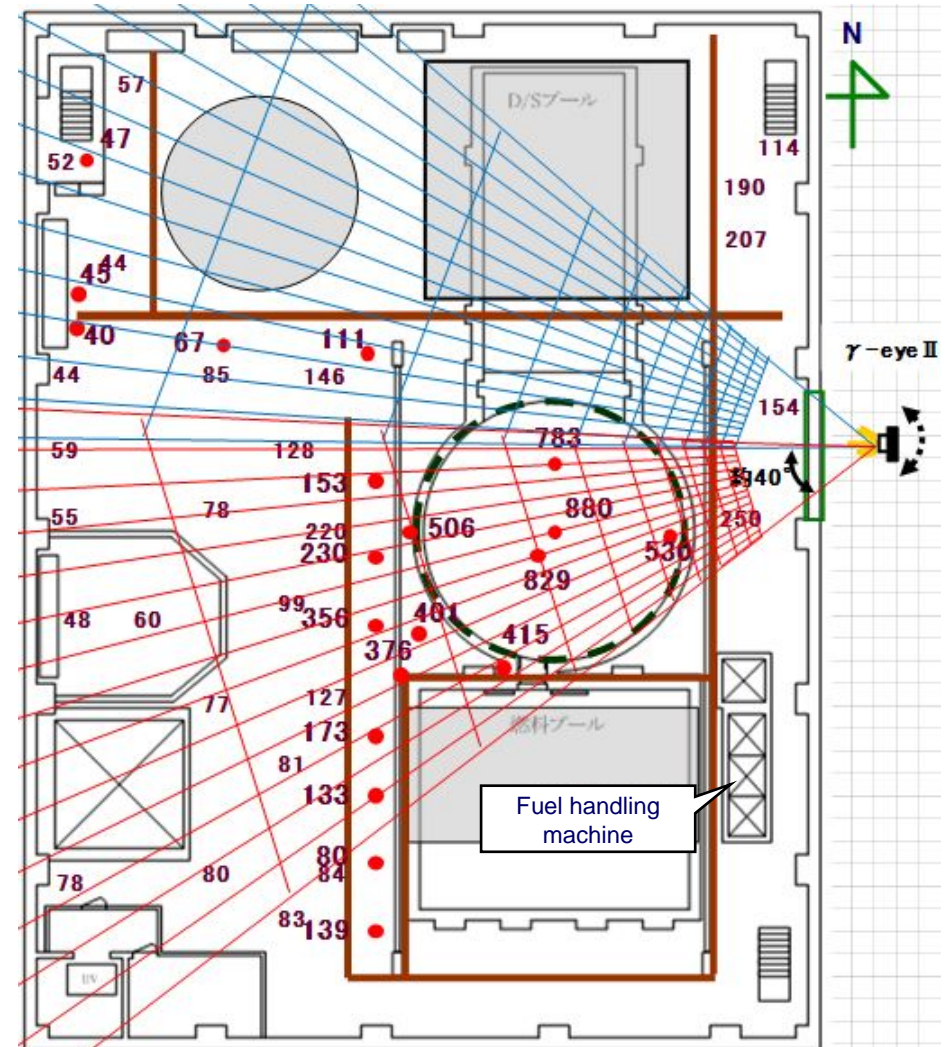
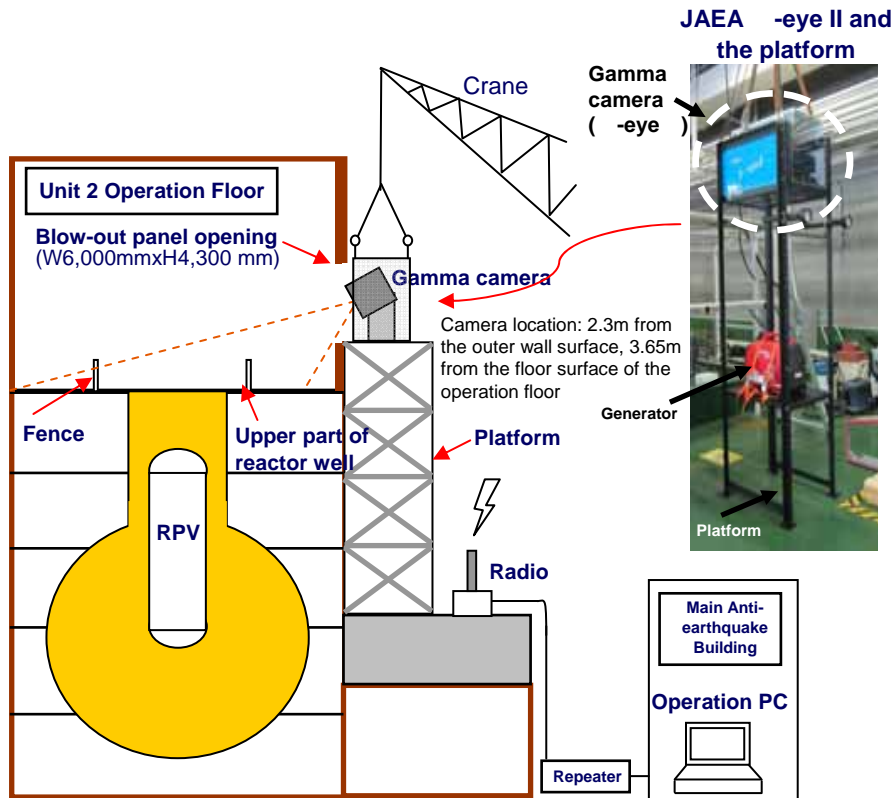
Thursday, February 21, 2013 from 9:00 AM to 4:55 PM

■ Maximum radiation exposure dose

0.75mSv/person (Planned exposure dose: 4mSv)

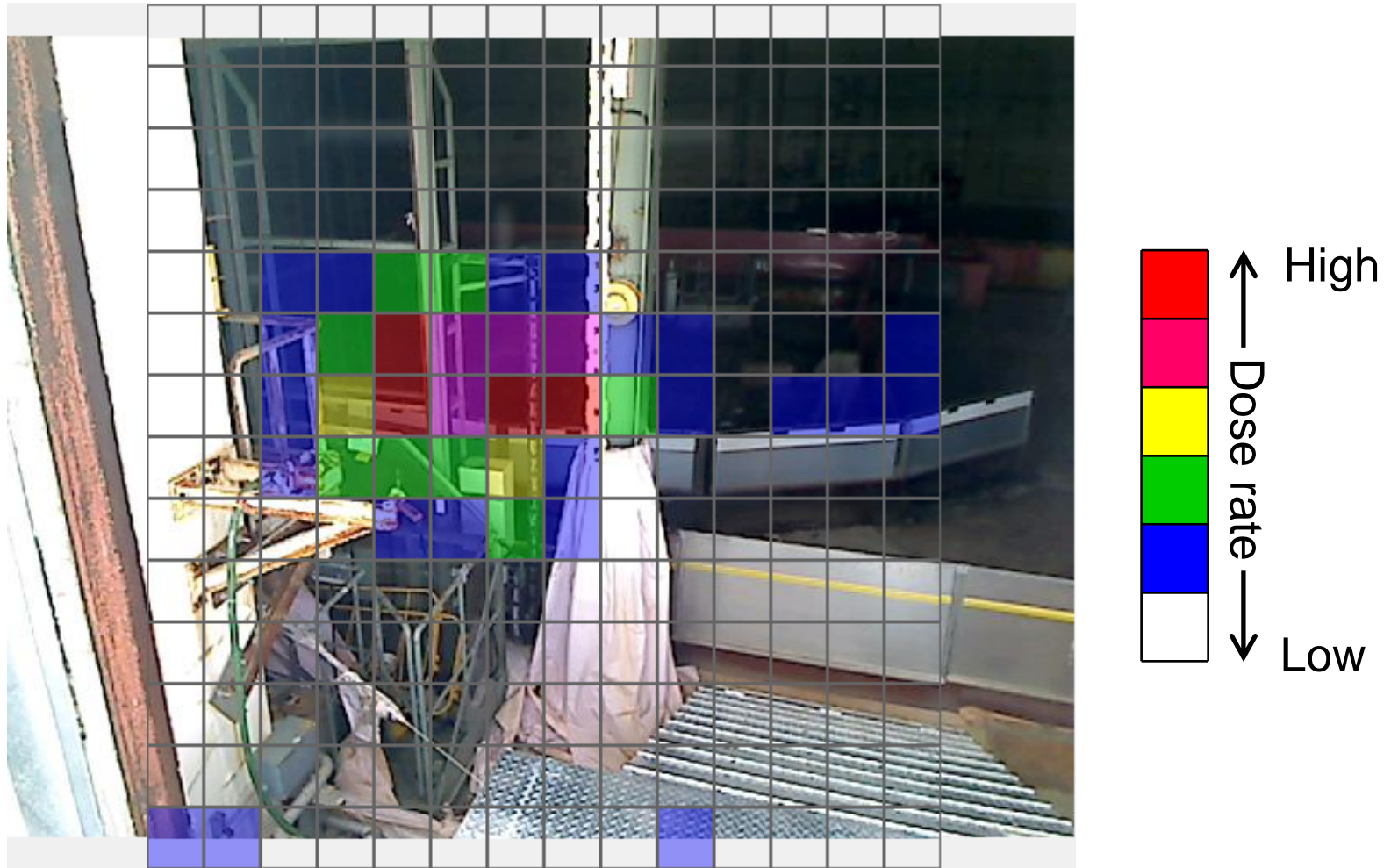
Investigation

Unit 2 operation floor



The numbers provided above are the dose rates obtained on June 13 (Unit: mSv/h). The figure is a simulated image. In actual, images were acquired by horizontally dividing the target surface into three parts.

Investigation Results (Preliminary)



Dose rates measured from the gamma camera position

Investigation results of Unit 2 operation floor will be analyzed to obtain the radiation distribution of the target surface. The analysis is estimated to be completed in about a month.