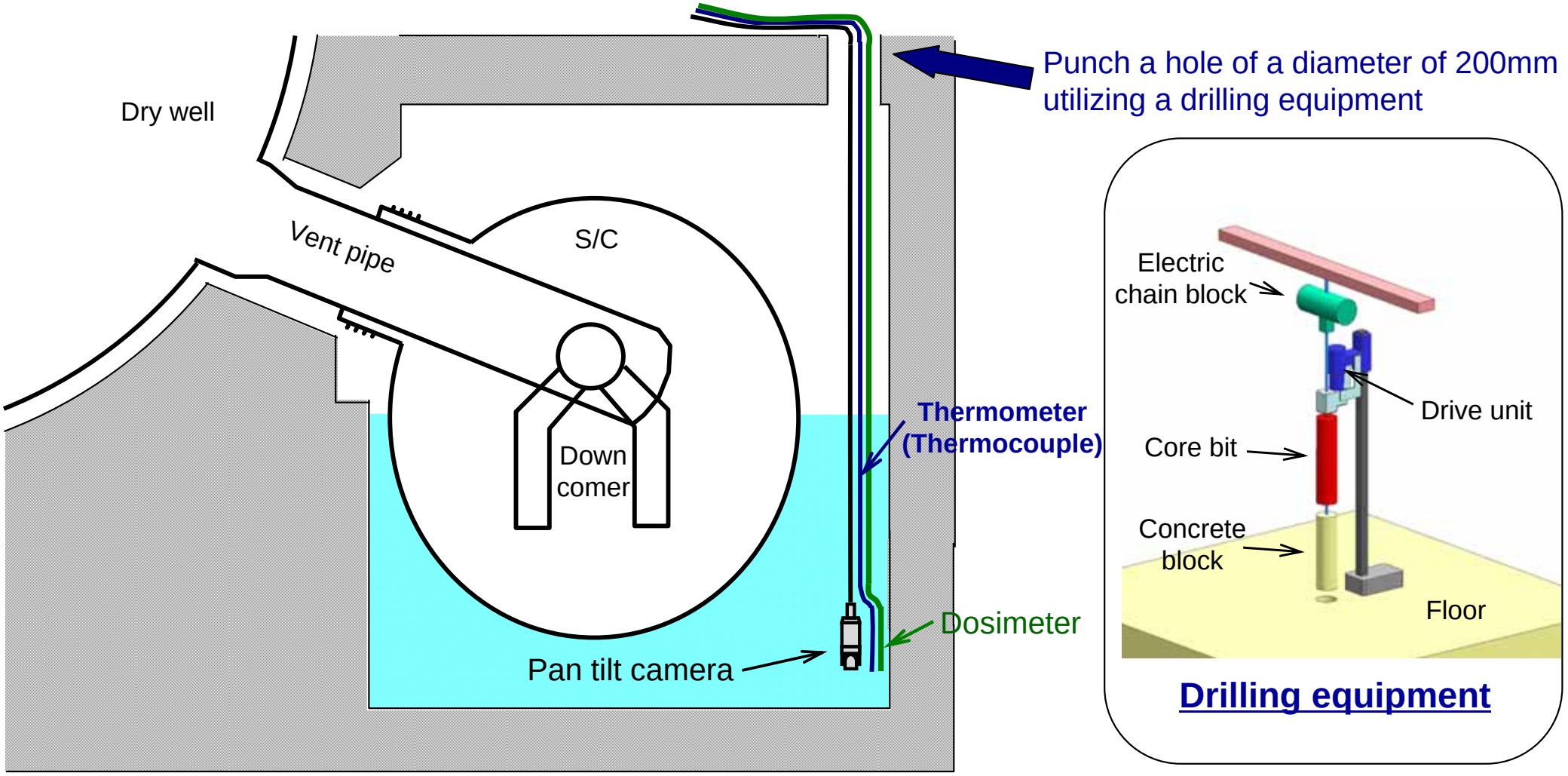
Drilling Holes for the Investigation of Unit 2 Torus Room at Fukushima Daiichi Nuclear Power Station

January 28, 2013
Tokyo Electric Power Company

1. Investigation Method (Temperature, Radiation Dose, Camera)

Drill a hole on the floor in the first floor of the Reactor Building utilizing a drilling equipment to insert a thermometer, a dosimeter and a camera through it for investigation.

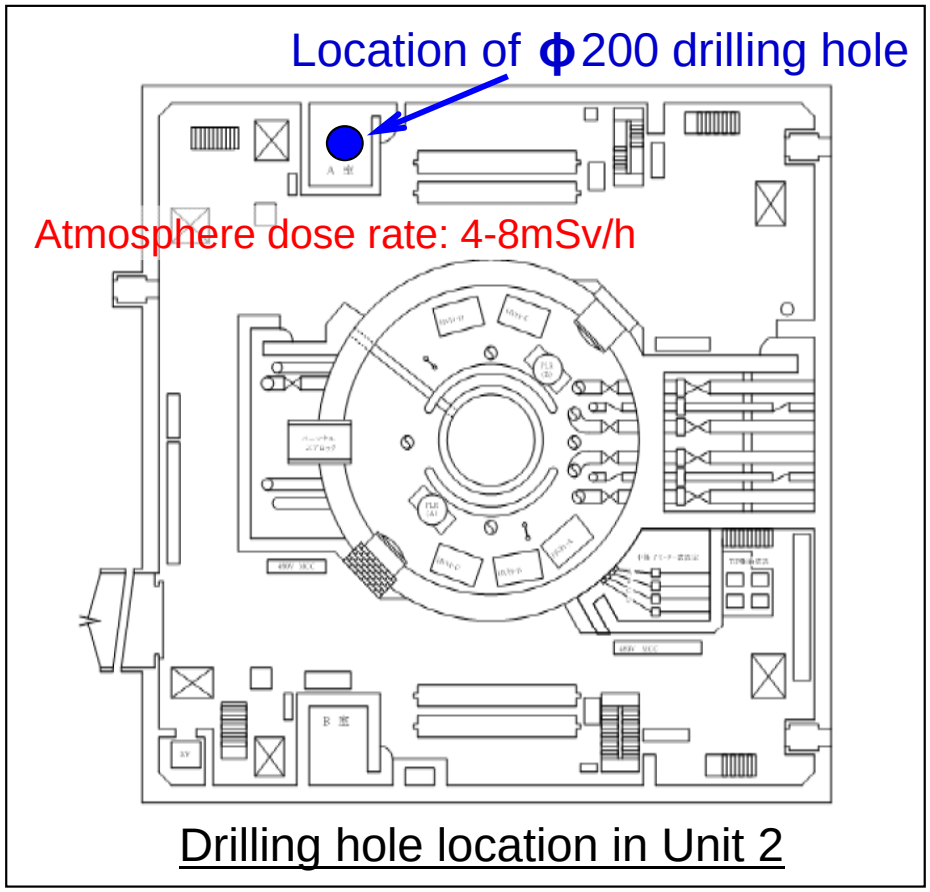


Investigation

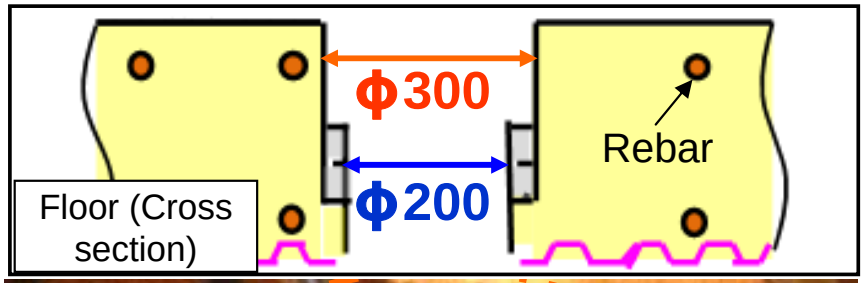
Drilling equipment

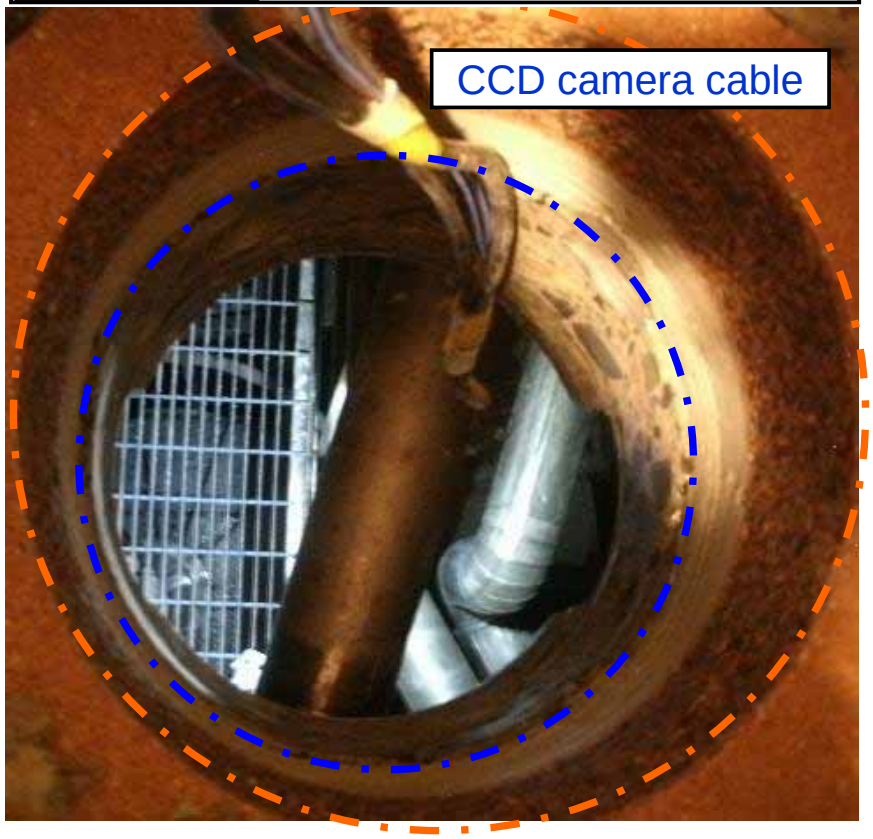
2. Current Condition and Future Schedule

As a result of drilling a hole on the RHR (A) heat exchanger room in the north side of Unit 2 Reactor Building, obstacles (pipe, grating, etc.) were found.



Drilling hole location in Unit 2





Future schedule

Future plan including the change of drilling hole location is currently under consideration.

3. Results

Sunday, January 27

ϕ300mm hole was drilled on the floor

Maximum individual radiation exposure dose: 2.03mSv

Monday, January 28

ϕ200mm hole was drilled on the floor (fully penetrated)

Maximum individual radiation exposure dose: 1.87mSv

< Notes >

- Atmosphere dose rate: No dose rate increase was found in the work area on the first floor after the penetrating hole was drilled (Approx. 4.5mSv/h).
- Hydrogen concentration: No hydrogen was detected in the work area on the first floor when the penetrating hole was drilled.