

1. Investigation

◆ Purpose

We aim to clarify damages of building frames inside Unit 1 reactor building in Fukushima Daiichi NPS.

◆ Work details

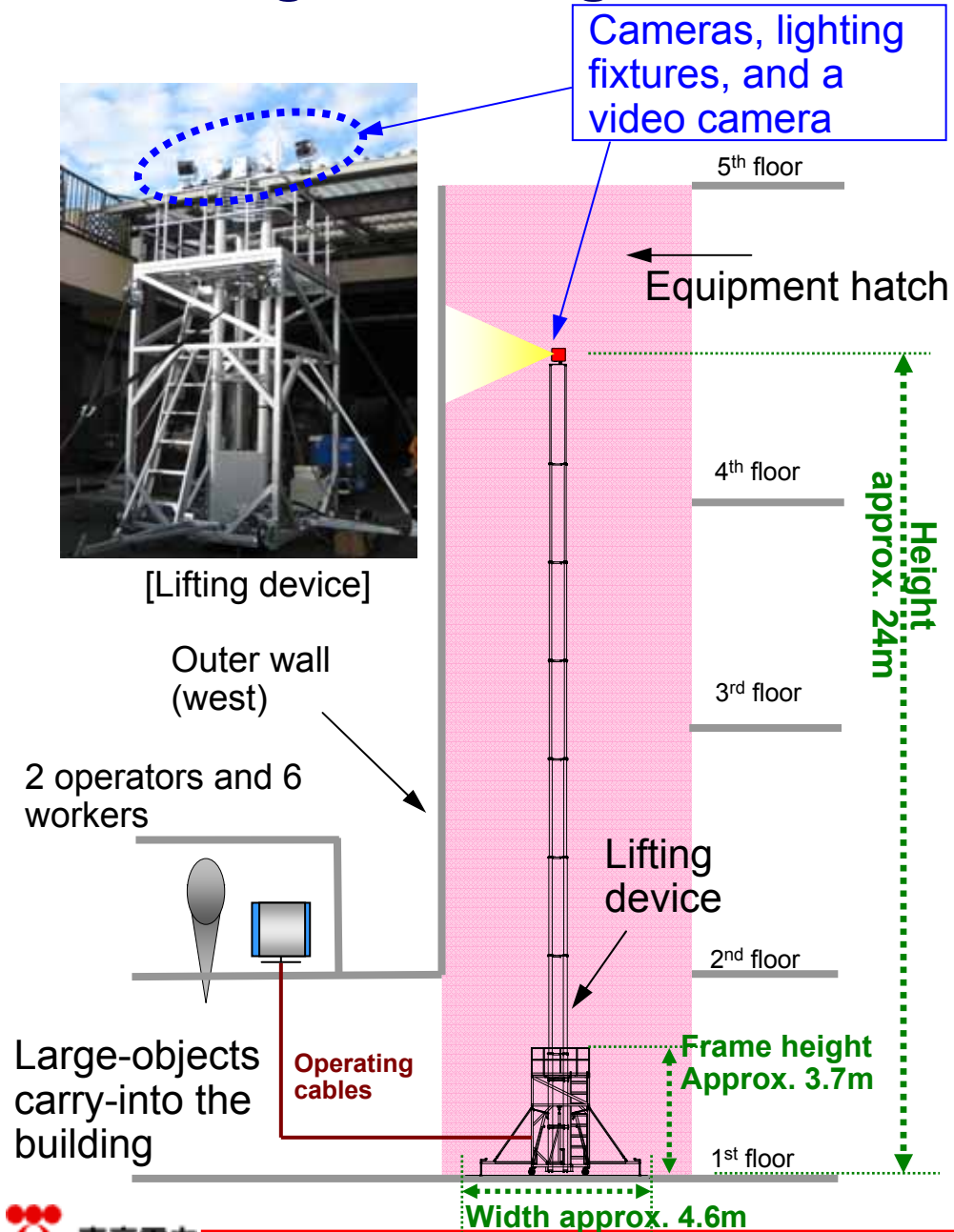
Taking high radiation dose into account, we adopt a investigation method suitable for lower radiation exposure; we install a lifting device equipped with cameras and lights on the first floor below the equipment hatch opening, and take photos of surrounding building frames via remote control.

◆ **Work area** Building frames around the equipment hatch (from 2nd to 4th floors) at Unit 1 Reactor Building

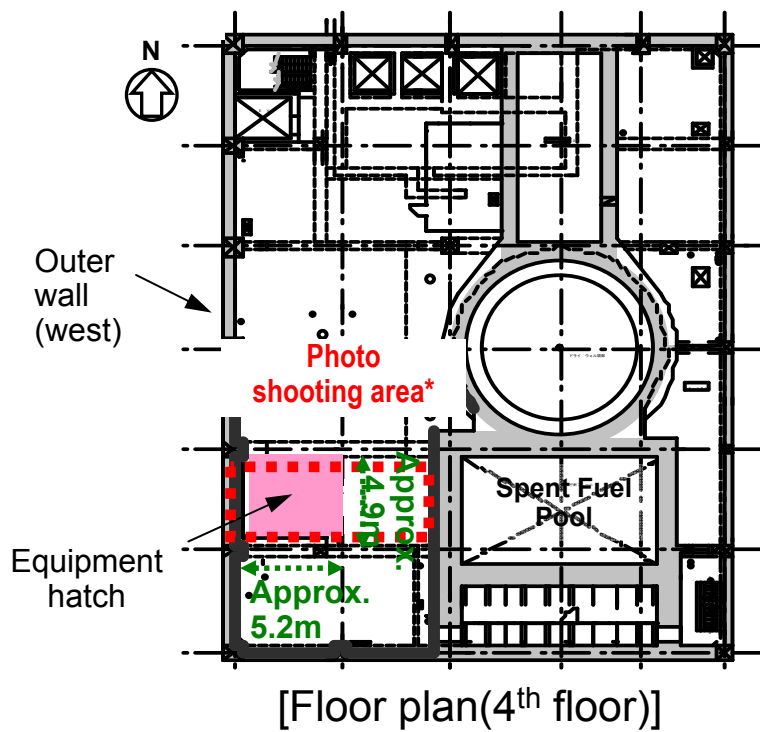
◆ **Date** On December 4 (Wed.) and 5 (Thu.), 2013

◆ **Group** 1 TEPCO employee and 8 associated company workers

2. Investigation image



- **Camera and lighting fixture**
 - 2 cameras (1 for preliminary)
 - Video camera (for preliminary use)
 - 2 lighting fixtures
- **Lifting devices (expandable pole air system)**
 - Maximum elasticity: (Height) Approx. 24m
 - Weight : Approx. 650kg

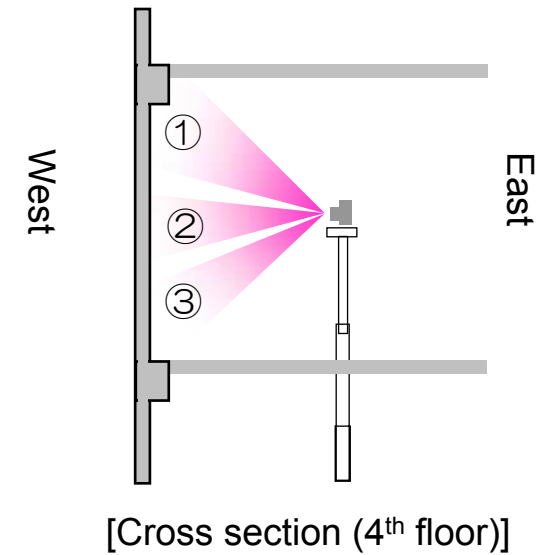
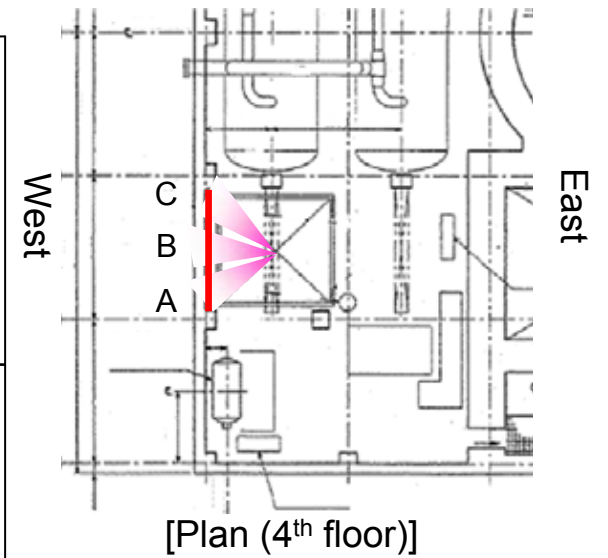


* Due to some existing facilities in this area, the photo-shooting area will be limited.

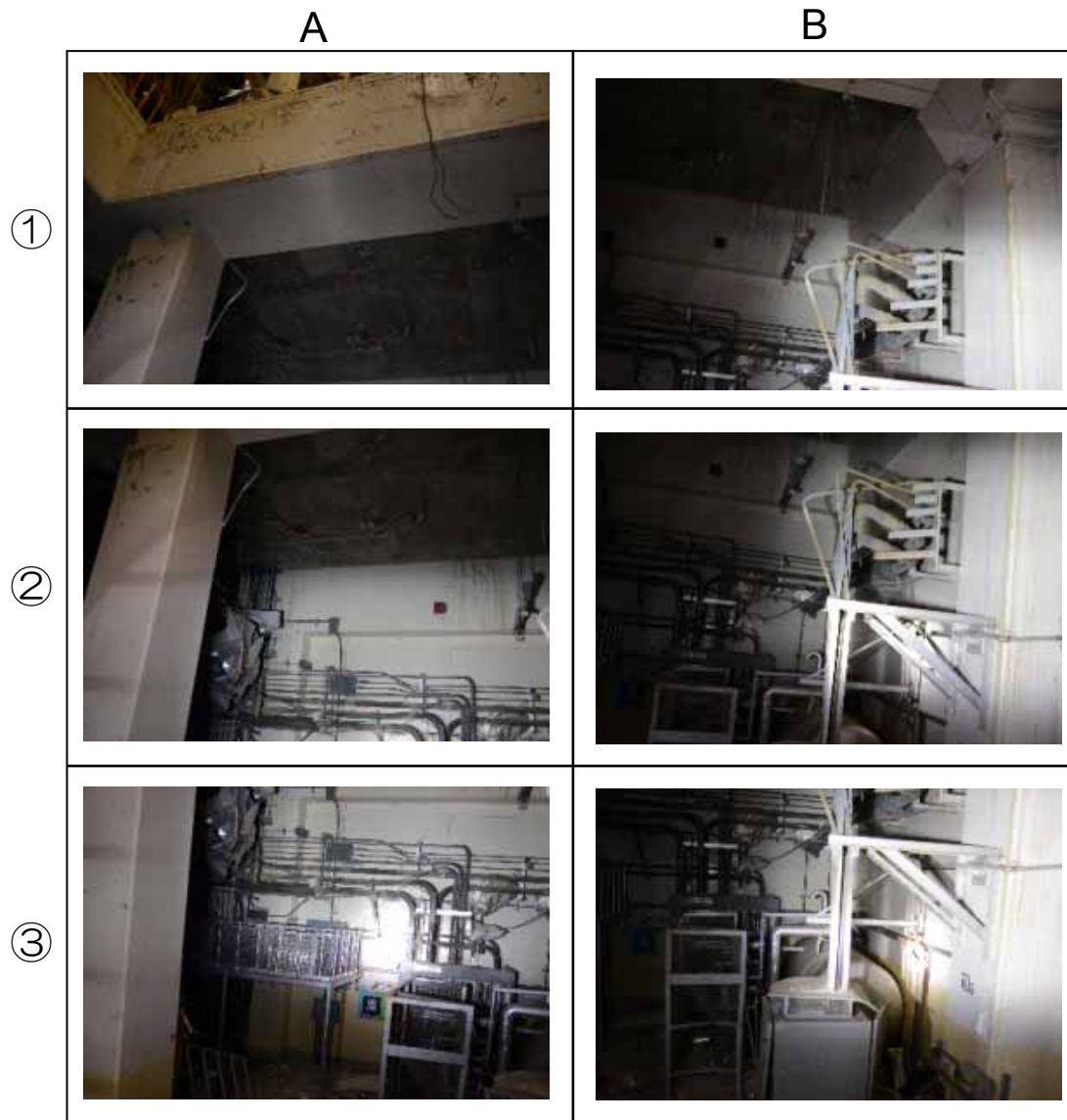
3.Results of photo shooting (4th floor)



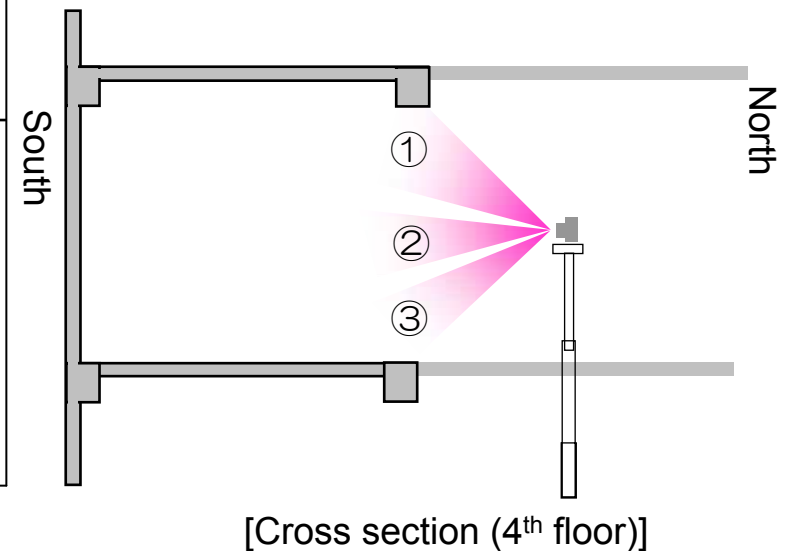
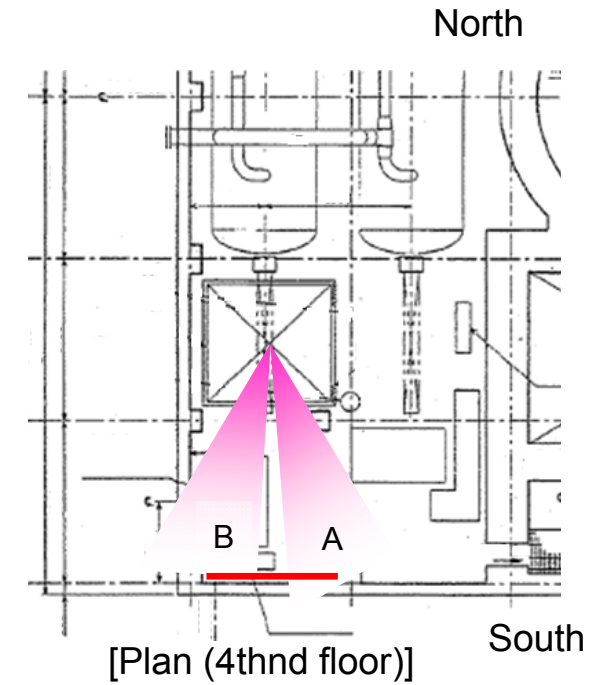
[4th floor equipment hatch walls in the west]



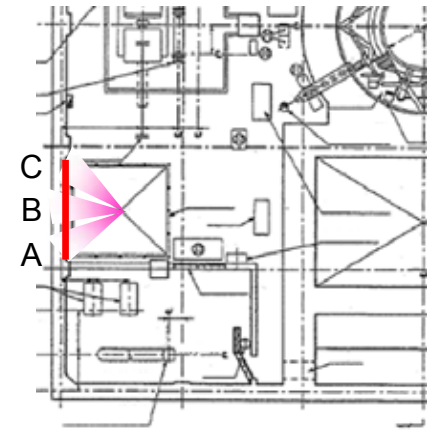
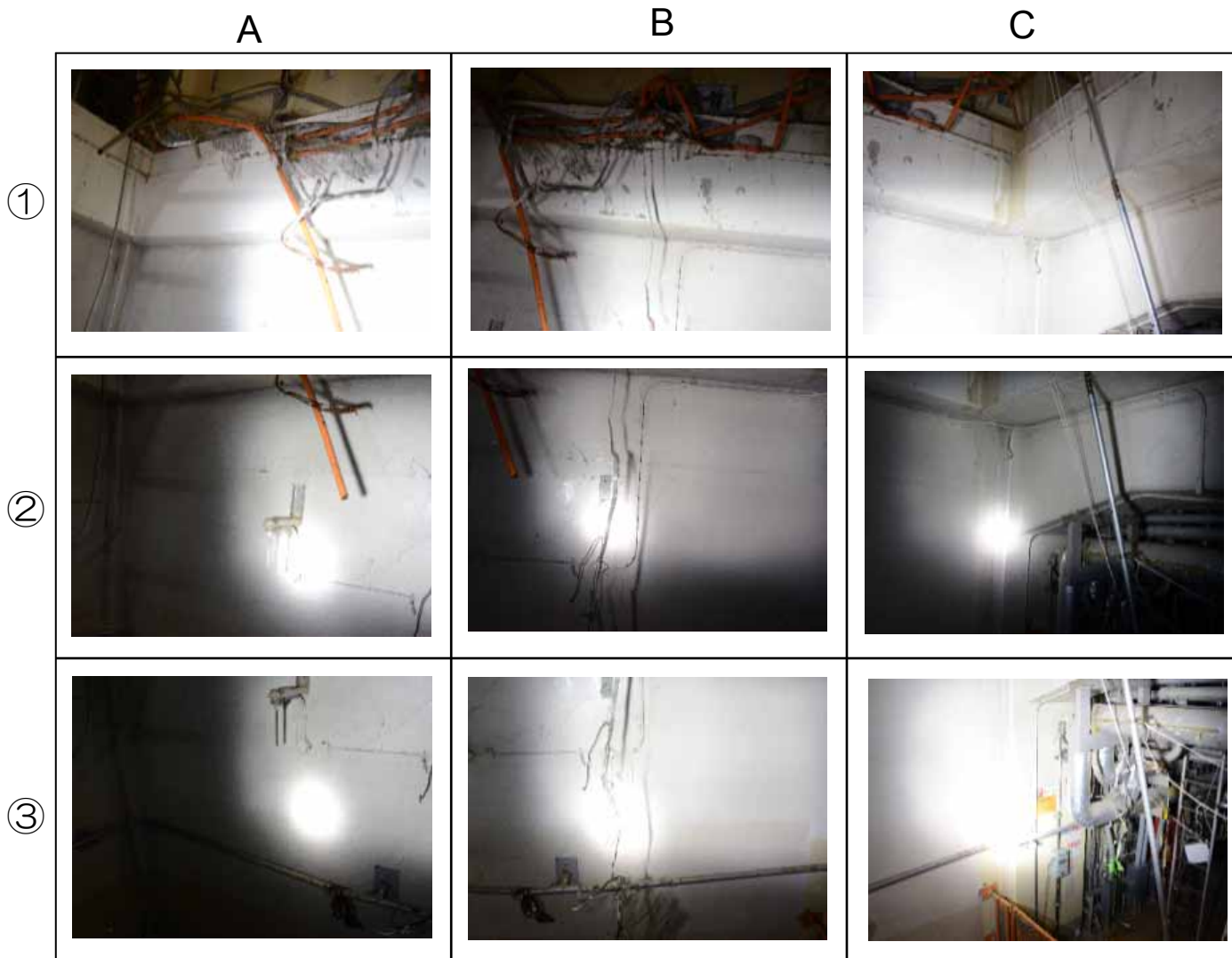
3. Results of photo shooting (4th floor)



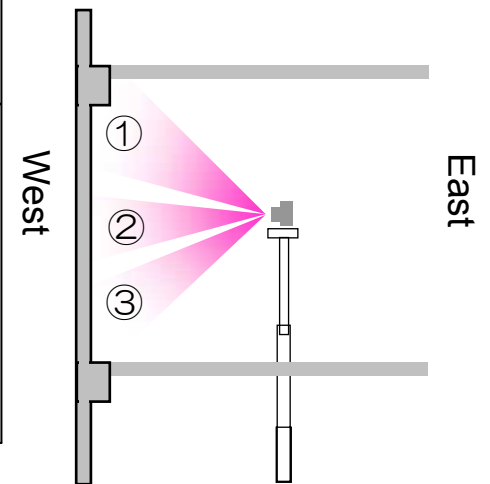
[4th floor equipment hatch walls in the south]



3. Results of photo shooting (3rd floor)



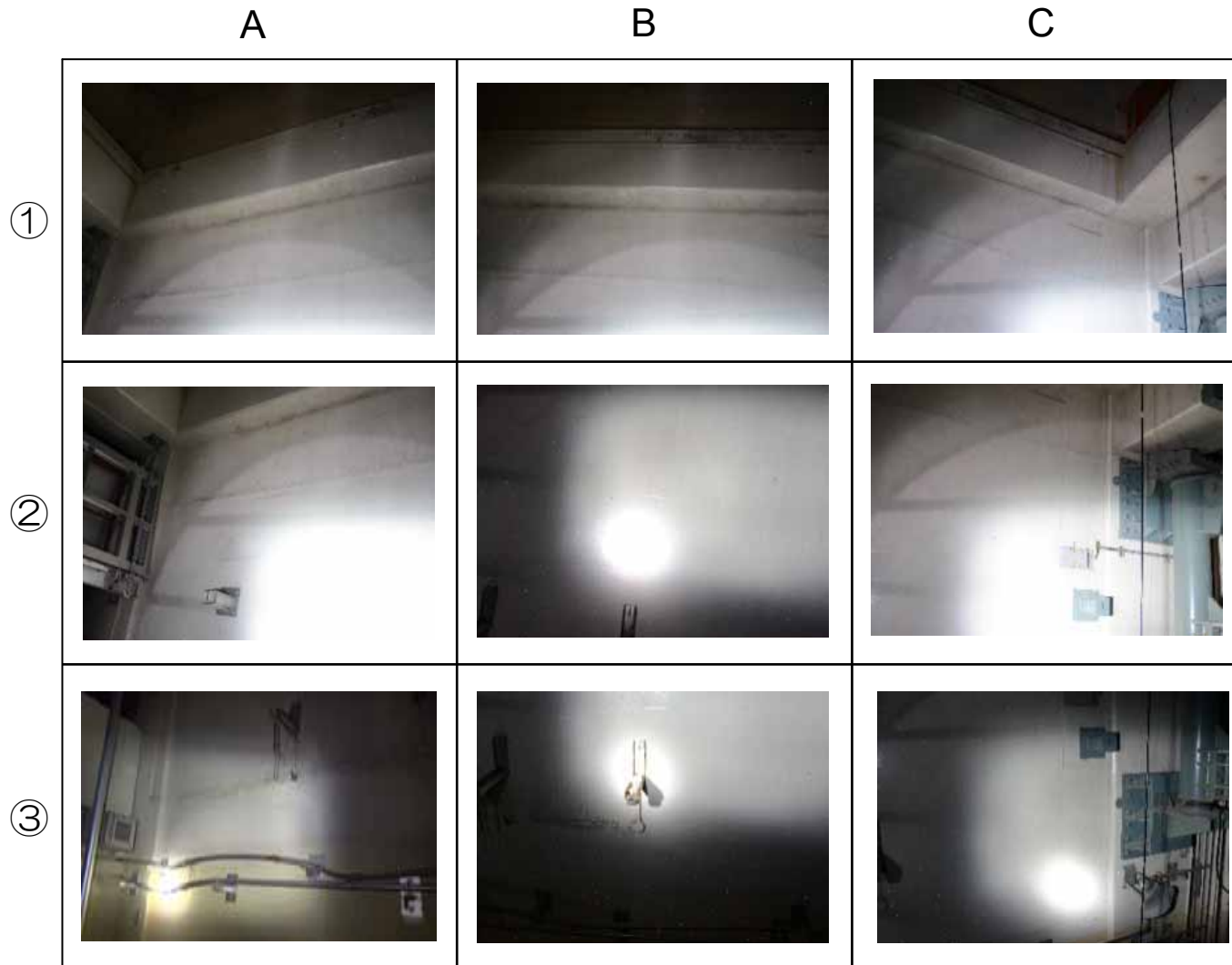
[Plan (3rd floor)]



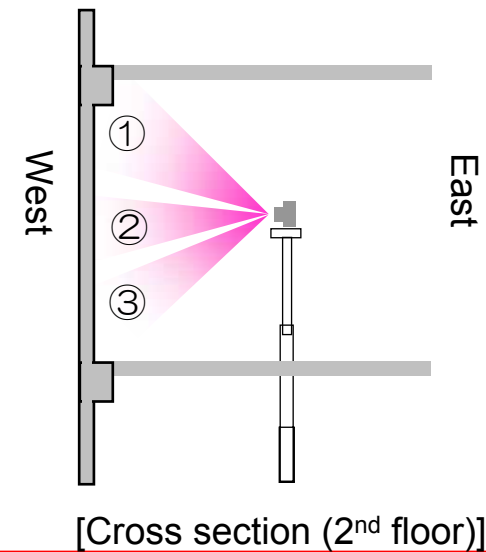
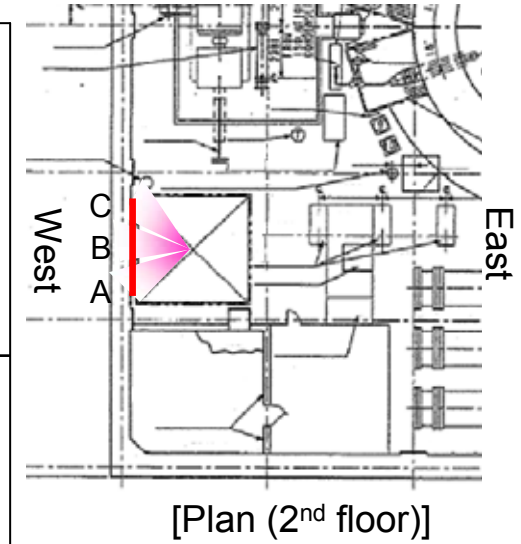
[Cross section (3rd floor)]

[3rd floor equipment hatch walls in the west]

3. Results of photo shooting (2nd floor)



[2nd floor equipment hatch walls in the west]



4. Summary

- After taking photos of the walls on each floor, no remarkable damage was found.
- These results will be reflected in the seismic resistance evaluation in future.

<Reference> Plan for fuel and fuel debris removal from the spent fuel pool (Unit 1)

