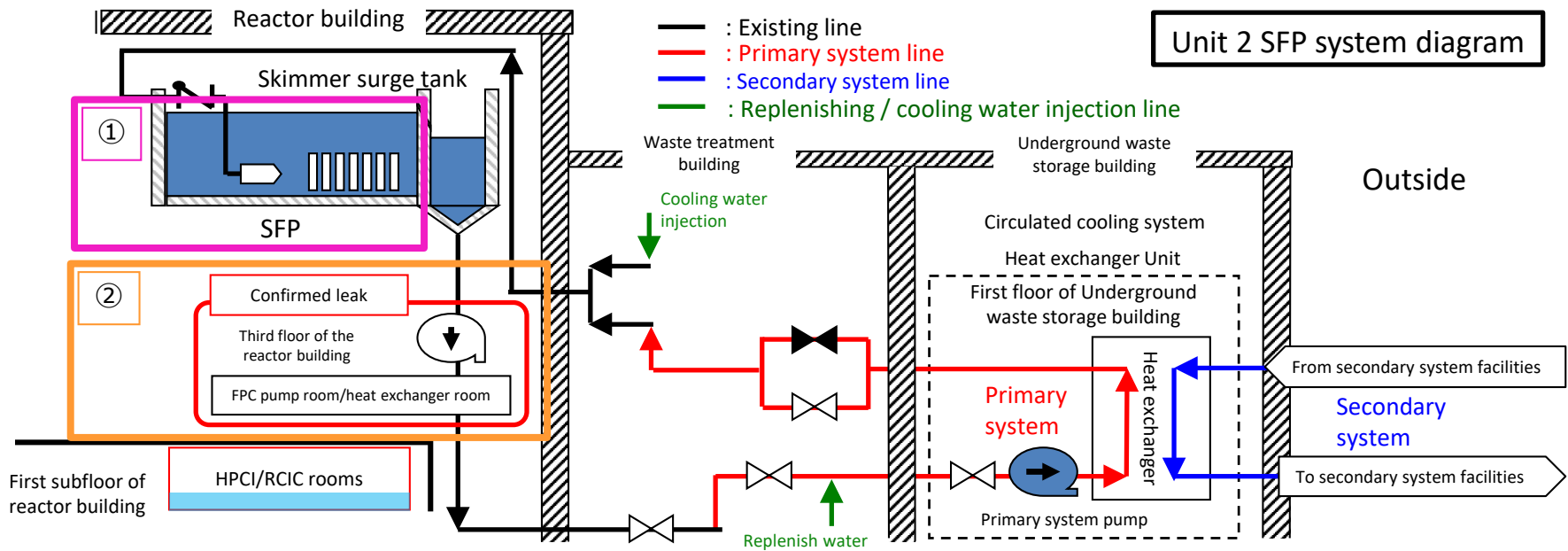


## Addressing the Decrease in Water Level in the Unit 2 Spent Fuel Pool Skimmer Surge Tank

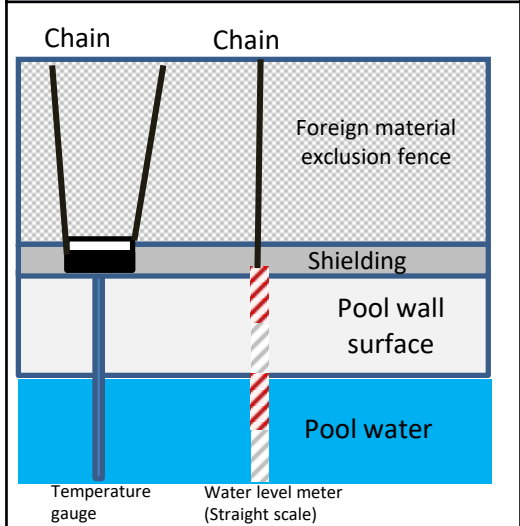
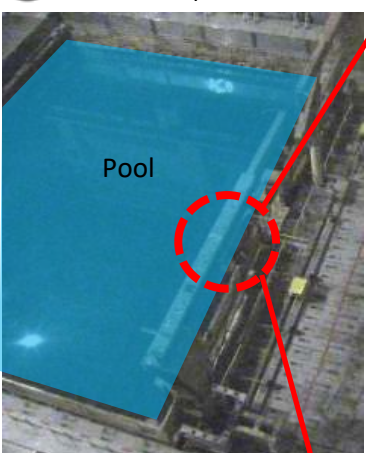
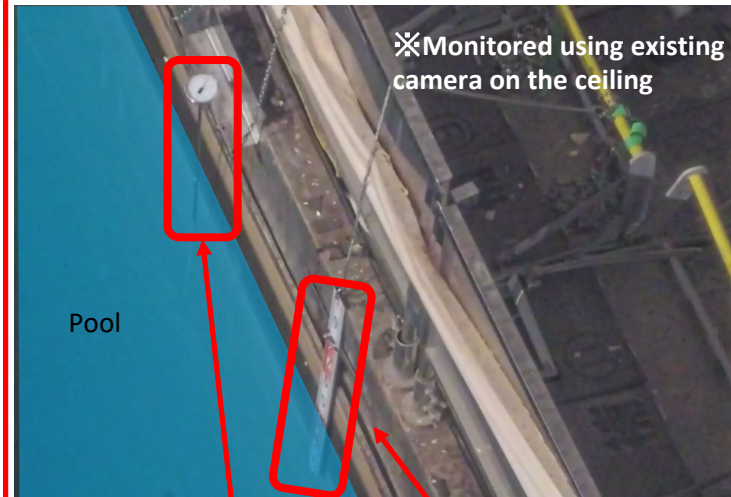


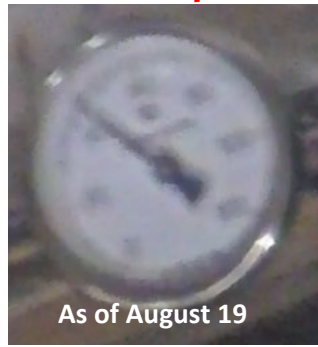

- Between August 16~17, the following actions were taken in order to address the water level decrease in the Unit 2 spent fuel pool (hereinafter referred to as, "SFP") skimmer surge tank (tank used to verify that the SFP is full of water):
  - ① In order to enhance monitoring during shutdown of the Unit 2 SFP cooling system, a water temperature gauge and water level meter were installed on the south side of the SFP (implemented on August 16)
  - ② A remotely operated robot (SPOT) was used to take dose measurements and examine conditions inside the FPC pump room/heat exchanger room (implemented on August 16, 17)
- Going forward, a survey plan that leverages the remotely operated robot (SPOT) will be formulated based on the site dose survey results and so on that were taken. Furthermore, since we are dealing with a high-dose environment, we shall thoroughly ensure safety as we take further action.
- We will continue to monitor the Unit 2 SFP water level and its temperature and we can implement SFP circulation cooling whenever necessary as we deliberate further investigations and countermeasures.



\* FPC: Fuel Pool Cooling and Filtering (Clean up) System, HPCI: High Pressure Coolant Injection System, RCIC: Reactor Core Isolation Cooling System

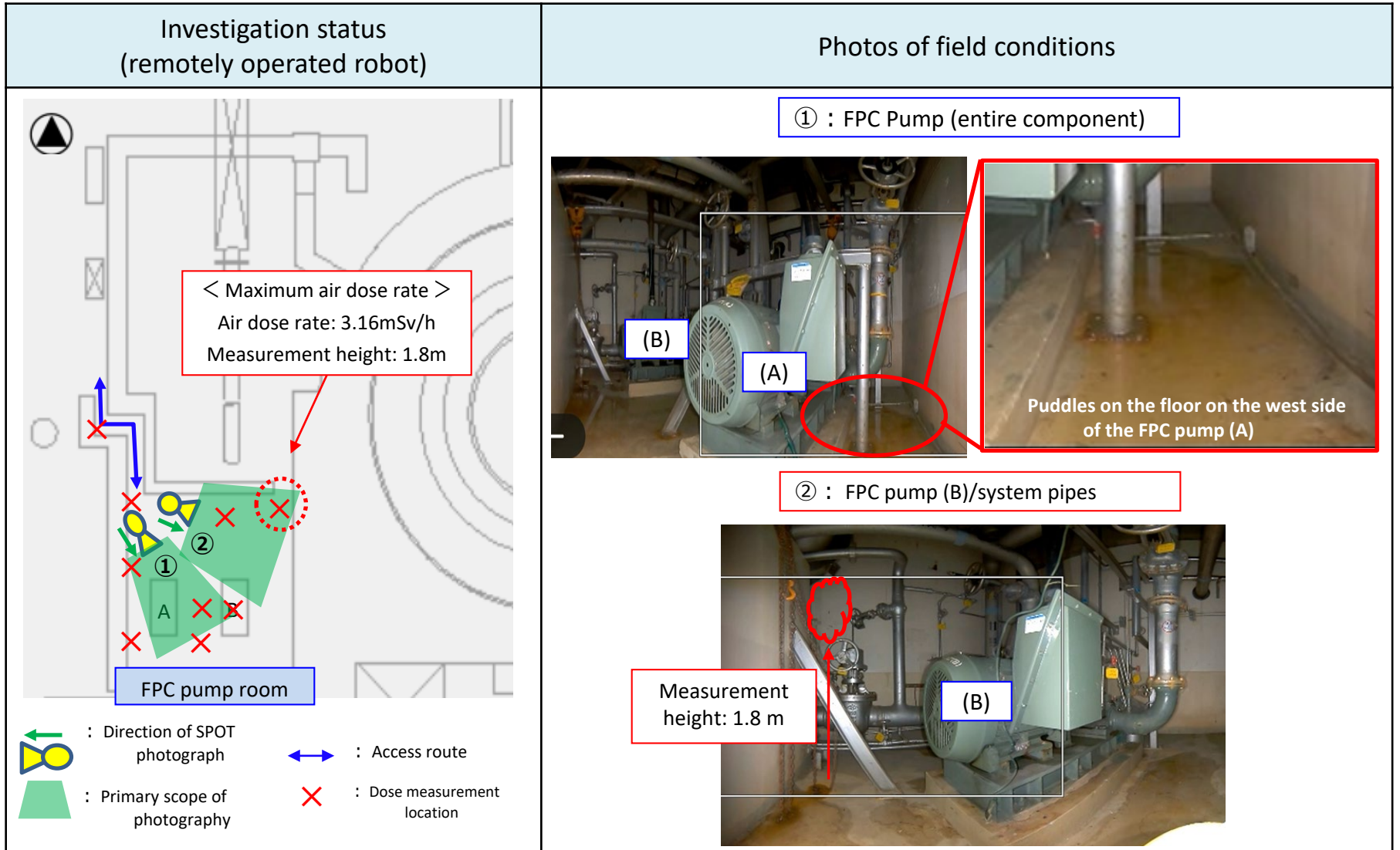
# Unit 2 SFP: Water temperature gauge/water level meter installation (implemented on August 16)

- On August 16, a water temperature gauge and water level meter (straight scale) were installed at the Unit 2 SFP. The water temperature gauge and water level meter (straight scale) shall be monitored via a camera that is already installed on the ceiling. (Since the camera footage is blurry, improvements will be made going forward)
- Furthermore, readings from the water temperature gauge that was installed have shown that the rise in Unit 2 SFP temperature has been approximately as predicted. **(As of 11AM on August 19 the predicted temperature of the unit 2 SFP is 42.9°C)**

Diagram	Water temperature gauge/water level meter (straight scale) installation
	<p>Installed on the south side of the fuel pool</p>   <p>✳ Monitored using existing camera on the ceiling</p>
 <p>Temperature gauge</p>	 <p>Water level meter</p>  <p>As of August 19 Water temperature gauge (installed)</p>  <p>As of August 19 Water level meter (installed)</p>

# Unit 2 reactor building, third floor, inside FPC pump room: Field investigation results (conducted on August 16)

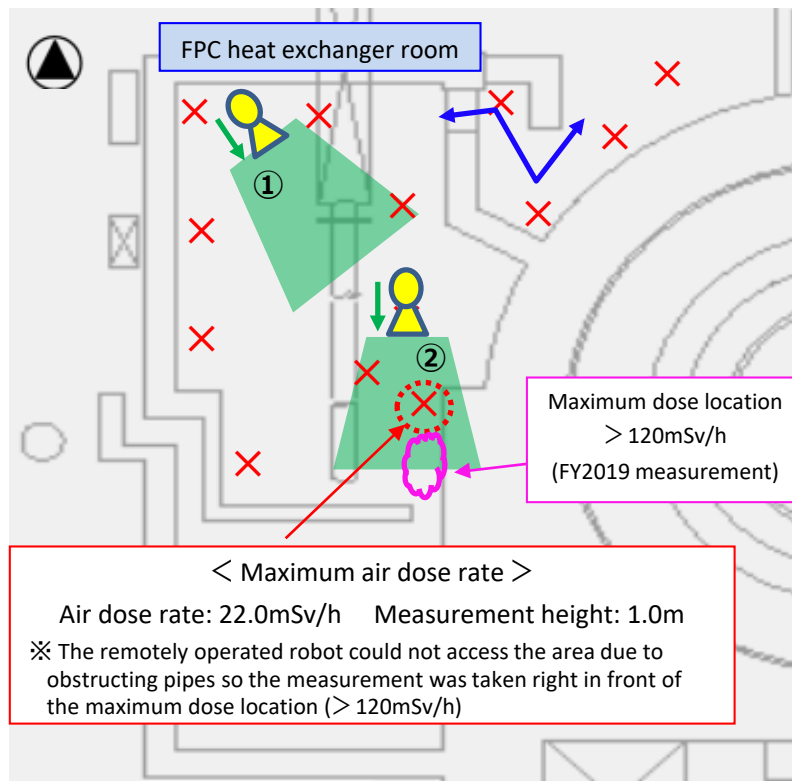
- Puddles were found on the floor on the west side of the FPC pump (A) but no leaks were seen from equipment, pipes, or valves, etc.
- Air dose rates taken at nine locations found the air dose rates ( $\gamma$ ) to be between 0.60~3.16mSv/h



# Unit 2 reactor building, third floor, inside FPC heat exchanger room: Field investigation results (conducted on August 17)

- Puddles were found on the north side of the FPC heat exchanger but no leaks were seen from equipment, pipes, or valves, etc.
- Air dose rates taken at 13 locations found the air dose rates ( $\gamma$ ) to be between 2.03~22.0mSv/hour.

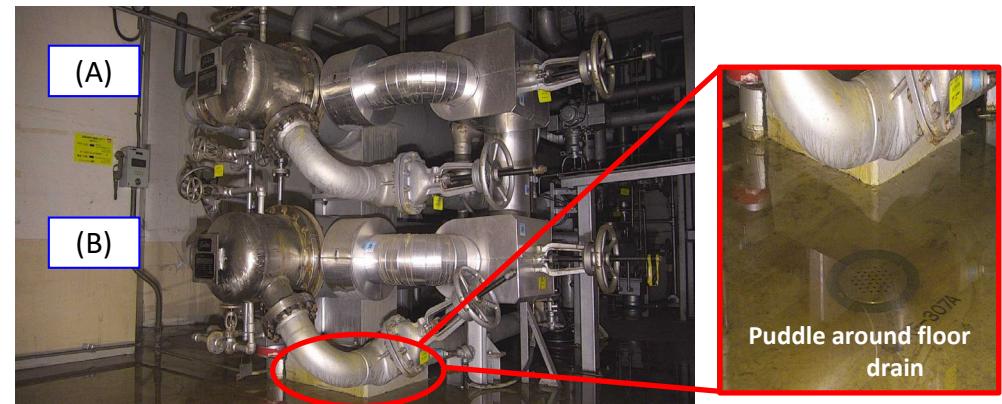
## Investigation status (remotely operated robot)



- : Direction of SPOT photograph
- : Access route
- : Primary scope of photography
- : Dose measurement location

## Photos of field conditions

① : FPC heat exchanger (entire component)



② : FPC heat exchanger, southeast corner

