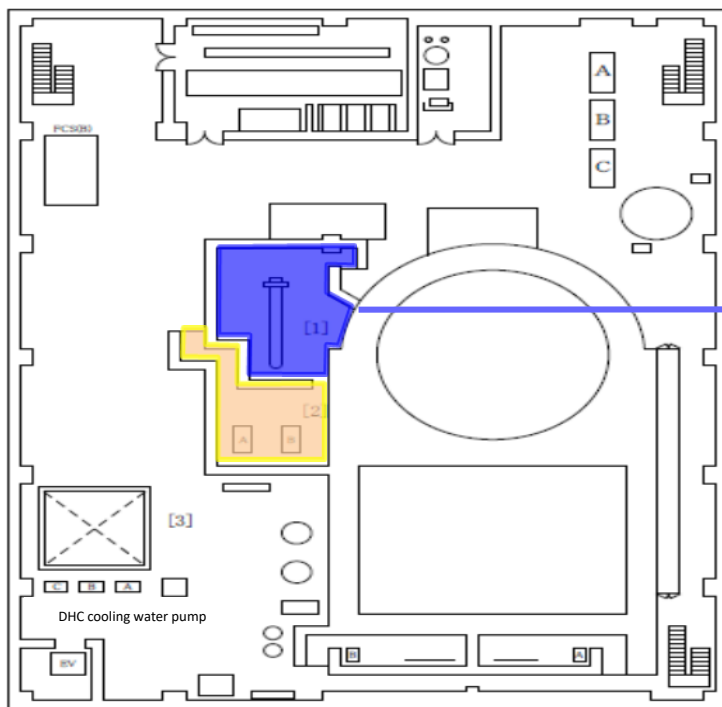


# Results of the investigation to identify the location of leaks in conjunction the Unit 2 Spent Fuel Pool Skimmer Surge Tank Water Level Decrease

- On August 9, we confirmed that the water level of 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) had decreased and discovered that water was leaking from the SFP primary cooling system, hence the primary cooling system was shut down in a planned fashion and we have been monitoring the water temperature and water level of the SFP.
- To date, we have found that it is highly possible that the leak is coming from the vicinity of the reactor building third floor Fuel Pool Cooling and Filtering (Clean up) System (hereinafter referred to as, "FPC") pump room and FPC heat exchanger room. On October 1, we filled the skimmer surge tank with water and put water through the SFP primary cooling system in order to identify in further detail where the leak(s) is/are coming from.
- Attempts to take footage with fixed point cameras installed in the FPC pump room and FPC heat exchanger room, and drones equipped with cameras, revealed that the water was leaking from pipes inside the FPC heat exchanger room.
- Going forward, we will repair that leak and construct a substitute means of cooling for in case such nonconformities occur again with the SFP primary cooling system.



FPC heat exchanger room pipe conditions (photographed with a drone on October 1)  
\*The water leak was stopped after the investigation



FPC heat exchanger room pipe conditions (photographed by a worker on October 2)

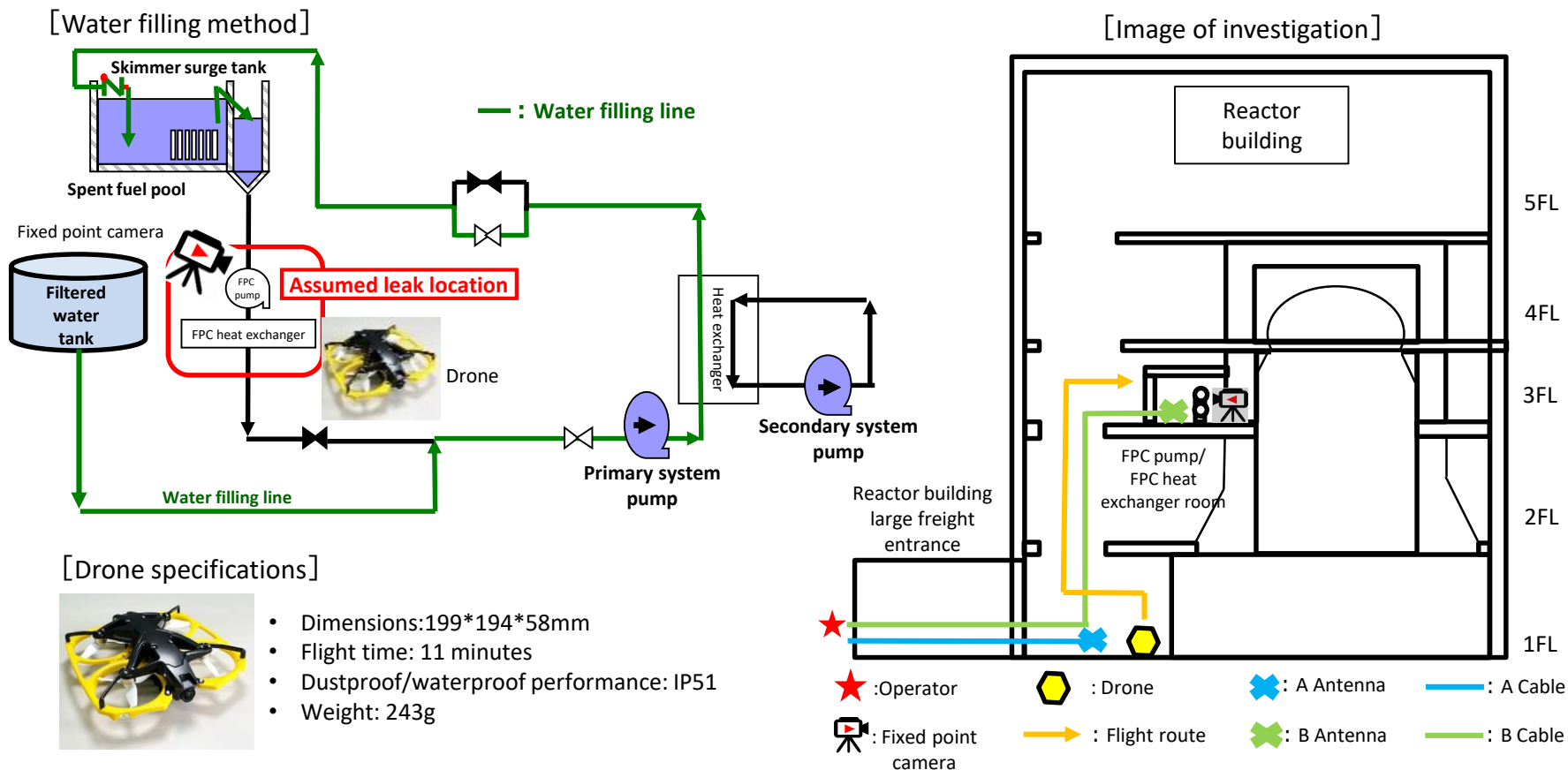
3<sup>rd</sup> floor, Unit 2 reactor building ■ : FPC heat exchanger room  
■ : FPC pump room

# (Reference) Summary of Investigation of Leak Location

■ Water from the filtered water tank was used to fill the SFP skimmer surge tank in order to identify the location of leaks from the FPC pump and FPC heat exchanger.

<Investigation method>

- ① Footage taken with fixed point cameras (installed in the FPC pump room/FPC heat exchanger room)
- ② Drones
- ③ Direct visual confirmation



# (Reference) SFP alternate cooling means

- Now that we have identified where the leak location are coming from, we have selected a substitute cooling method to be configured in the future.
- As a result, we will deliberate repairing the leak location while also configuring a bypass line (Proposal①).

Proposal	Facility overview
① <b>Bypass line configuration</b>	<b>Isolate the leaks in the FPC heat exchanger/pump room and construct a bypass line using steel pipes [Adopted]</b>
② Change intake source	Switch the intake source from the SFP from the skimmer surge tank to the SFP, and connect a water hose from the SFP to the entrance of the heat exchanger Unit
③ Change cooling method	Install a cooling Unit, etc. on the operating floor or west side work platform to create a circulated cooling system that runs off water from the SFP

