

# Commencement of Investigation at the Fukushima Daiichi Nuclear Power Station Using a Boat-shaped Remote Operated Vehicle in Preparation for the Removal of Zeolite bags from Building Subfloors

## 【Overview】

- We are deliberating a plan to remove high-dose zeolite bags on the second subfloors of the high temperature incinerator building and the process main building prior to draining accumulated water while the bags are still submerged. < [Announced on January 28, 2021](#) >
- During the previous investigation ※<sup>1</sup> a submersible remote operated vehicle (ROV) was used to investigate the subfloors and for this investigation a submersible ROV that has been converted into a boat will be used to investigate the area in which removal work will take place, and also to identify the exact position of bags ※<sup>2</sup>.
- In preparation for this investigation final improvements were made to the boat-shaped ROV upon performing tests on a mockup at the Fukushima Robot Test Field (Minami Soma City) in December 2020.
- Preparations for the investigation in the high temperature incinerator building commenced today (May 20) and we plan to commence the investigation using the boat-shaped ROV on the 21st of this month. (The timing of the investigation of the process main building subfloors has yet to be determined)
- In preparation for the commencement of zeolite bag removal (to be conducted during FY2023) we continue to deliberate submerged recovery methods, for which the technology is highly reliable, while also keeping in mind special circumstances such as whether these methods can be applied to the vast recovery area, and how to handle bags that have deteriorated.

## 【 Investigation Objectives 】

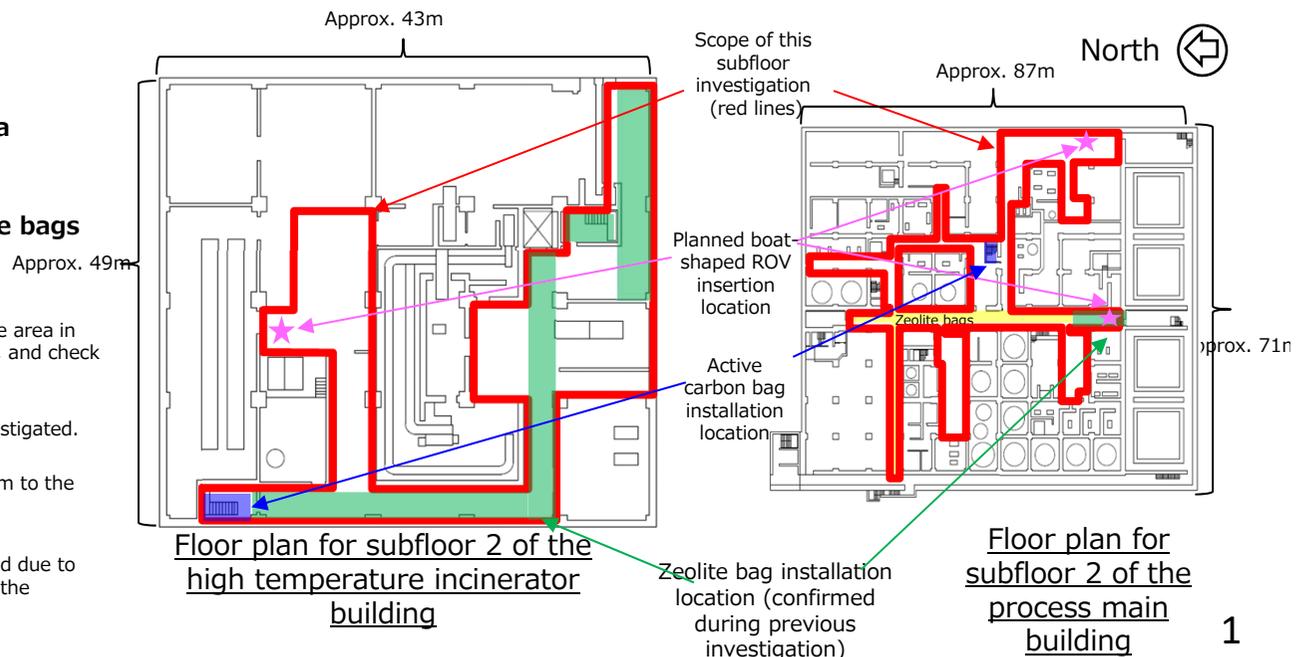
### (Conducted by TEPCO employees)

- **Visual confirmation of conditions in the area surrounding the zeolite bags**
- **Area dose measurements**
- **Identification of the exact position of zeolite bags and active carbon bags**

※<sup>1</sup> The objectives of the previous investigation were to confirm the area in which bags are placed, confirm the surface dose levels of bags, and check the extent of deterioration of the bags.

- High temperature incinerator building:  
December 2019~March 2020, all areas of the subfloors investigated.
- Process main building:  
September 2019, investigation conducted approximately 12m to the north of the ROV insertion location

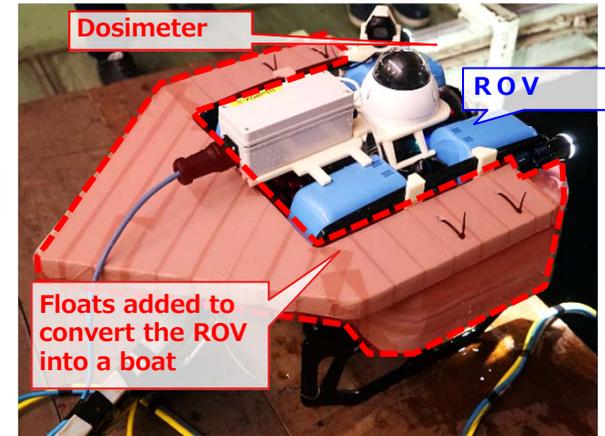
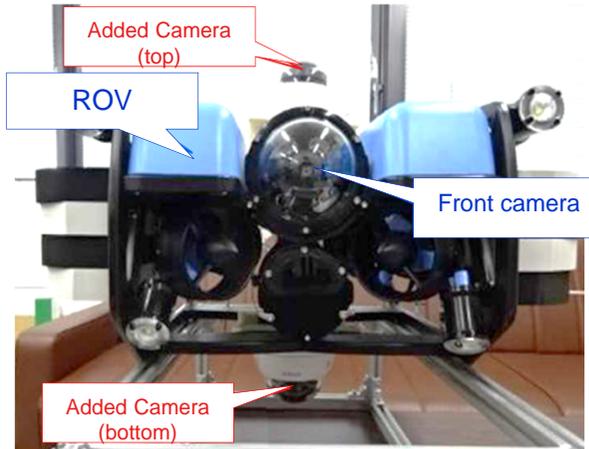
※<sup>2</sup> The scope of movement of the ROV and visibility may be limited due to obstructions and the murkiness of the accumulated water, but the investigation will be conducted within the scope possible.



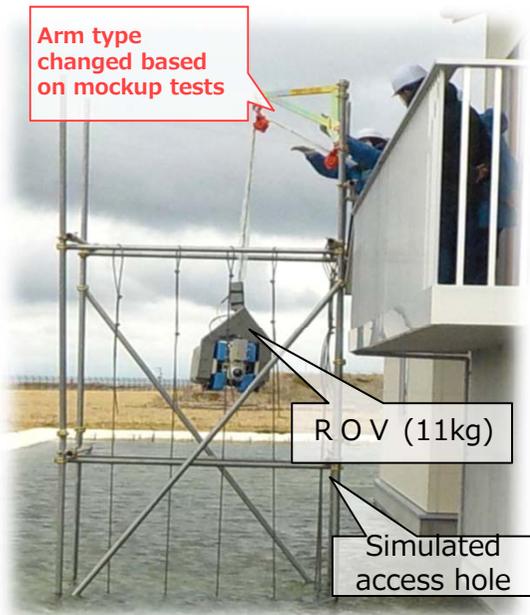
# 【Reference】 Pictures of the boat-shaped ROV and mockup tests



Commercially available submersible robot used as the platform



Boat-shaped ROV to be used for this investigation



Practicing ROV recovery procedures



Overview of mockup tests