On Nov. 28, for the purpose of protecting equipments and workers from contamination during the work inside the building, we are starting decontamination for the floor surface of the first floor at Unit 2 reactor building as a preparation for the regular decontamination inside the building, for it is necessary to lower the radiation dose, in order to implement the inside-building work such as investigation inside Primary Containment Vessel (PCV) etc.

In this decontamination work, we plan to 1) decontaminate floor surface etc. with a newly adopted remote-controllable decontamination device (Raccoon), and 2) check its effectiveness of removing contamination and lowering the atmosphere radiation dose.

In future, we are going to check the effectiveness of this decontamination , and examine decontamination of a whole building



## 1. Remote-controllable device and work overview

Remote-controllable device: Raccoon (consisting of travelling and relay units)

Travelling unit

(Exchangeable for jet head/brush head/suction head)

- Size : Width 462 × Length905 × Height302 millimeters ; 35kg (jet head)
- Travelling speed: 0 to 10 meters per minute
- Amount of water supplied: Approx. 13 litters per minute (jet head)
  supply water pressure (head part): Approx. 15MPa

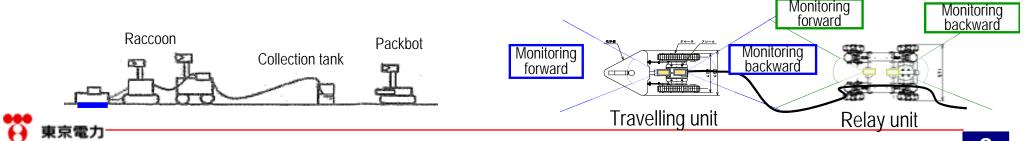
Relay unit

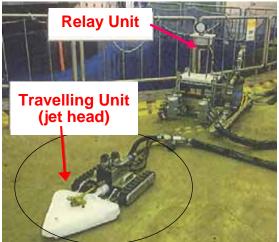
- Size: Width 631 × Length 1152 × Height 1158 millimeters; 100kg
- Travelling speed: 0 to 10 meters per minute Wired remote controlling

Decontajmination: On the first floor at Unit 2 reactor building

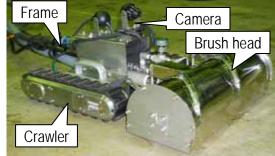
## Work overview

Water is supplied on the floor surface from the inside of the unit head (jet and brush), and the drainage is sucked inside the head at the same time.





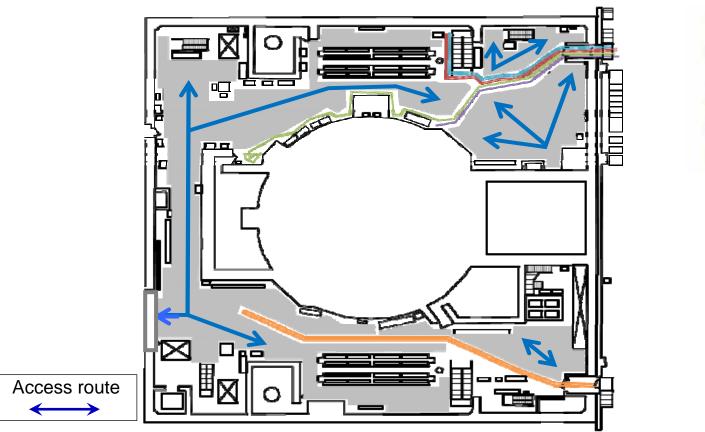




Travelling unit (brush head)

## **2.** Decontamination area

Decontamination area: On the 1<sup>st</sup> floor at Unit 2 reactor building (Floor surface)





Water-sprinkling direction



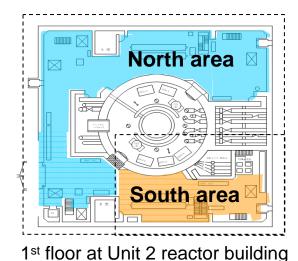
• Wired remote controlling on the first floor at Unit 2 Turbine Building

Packbot in operation and monitoring during the work implementation

Relay unit



## 3. Work schedule



Along with collecting and removing interventions, decontamination for the floor surface will be conducted.

As for the north area, decontamination is starting on Nov. 28, 2013. In the south area, it is starting in between the end March and the early April, 2014.

Work content	Month	Nov.		Dec.					Jan., 2014				Equipment
	Week	3rd	4th	1st	2nd	3rd	4th	5th	1st	2nd	3rd	4th	
Collecting and removing interventions													
Decontamination for floor surface													Raccoon

