Investigation of the Operating Floor after opening the Outer West Wall of the Unit 2 Reactor Building

June 28, 2018

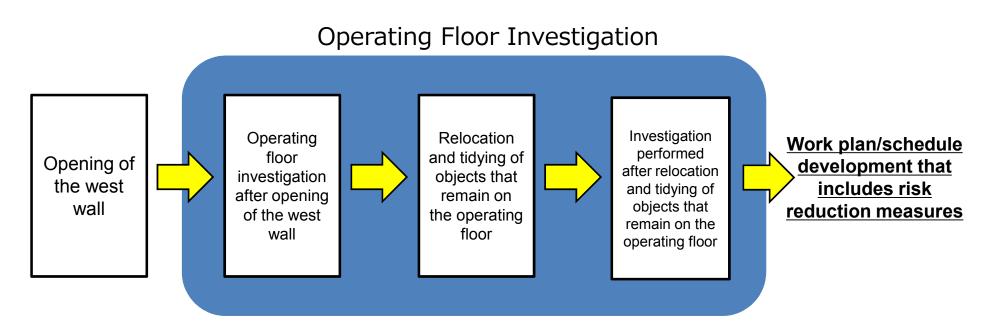


Tokyo Electric Power Company Holdings, Inc.

1. Operating floor investigation flow after opening of the outer west wall



- ■Prior to dismantling the upper portion of the building, which will be done in preparation to remove fuel from the Unit 2 will spent fuel pool, we plan to investigate conditions on the operating floor (5th floor) to measure dose rates and the concentration of radioactive substances in dust in order to implement thorough measures for suppressing the dispersion of radioactive substances.
- ■Work to open the outer west wall of the Unit 2 reactor building was completed on June 21. During work to open the wall there were no significant fluctuations in dust measurements taken at four locations outside the anticum.
- ■Going forward, remotely operated robots and heavy machinery will be used to investigate dose rates and contamination conditions on the operating floor.

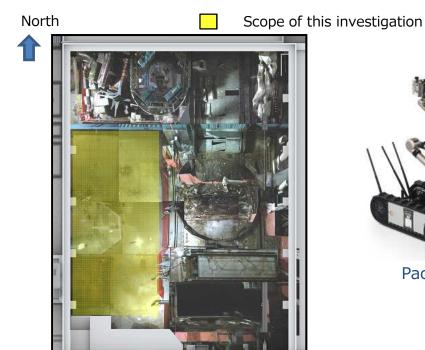


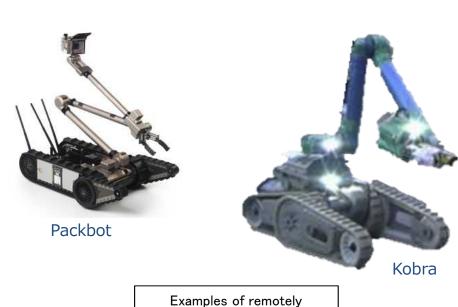
2. Operating floor investigation after opening of the west wall **TEPCO**



[Investigation Objectives]

- ■The objectives of this investigation are to ascertain the conditions of objects that remain on the operating floor and also measure dose rates around the opening of the west wall of the operating floor to ensure that the steps of "Relocation and tidying of objects that remain on the operating floor" and "Investigation performed after relocation and tidying of objects that remain on the operating floor" go smoothly.
- ■The primary content of the investigation is as follows:
 - Air dose rate measurement
 Dust measurement Smear tests (floor/walls)
 - Use of cameras to investigate the condition of objects that remain on the operating floor
 - Measurements using collimating dosimeters (floor/walls)





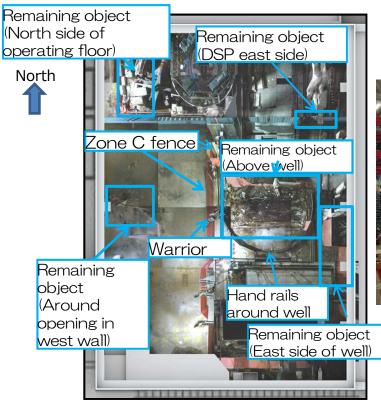
operated unmanned robots

3. Relocation and tidying of objects that remain on the operating floor



[Objective]

- ■To relocate and tidy objects that remain on the operating floor that may be a hindrance to the "Investigation performed after relocation and typing of objects that remain on the operating floor."
- ■The primary objects to be relocated/tidied are as follows:
 - · Zone C fence
- Hand rails around the well
- Warrior
- Channel attachment/removal device
 Tool rack, etc.



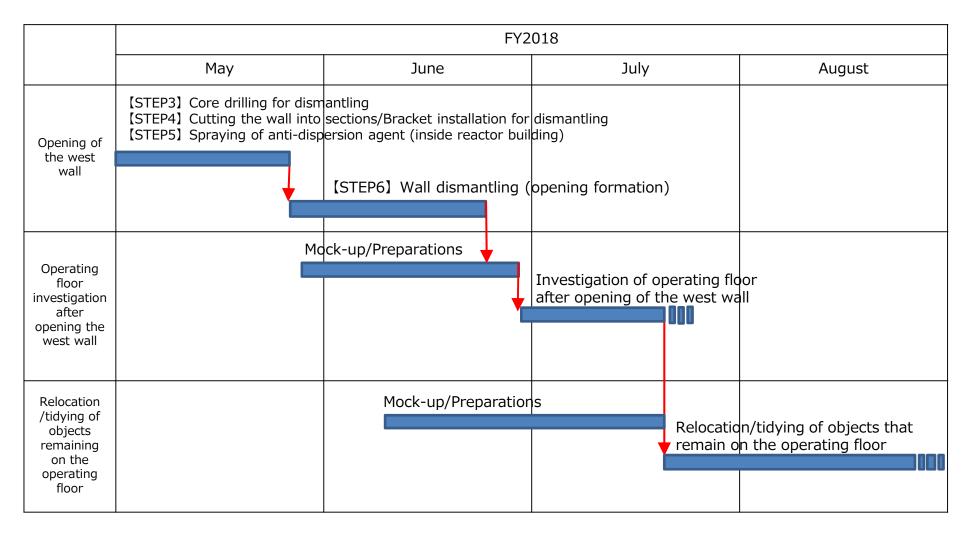




Examples of remotely operated unmanned heavy machinery

4. Schedule for opening the outer west wall and the operating floor investigation





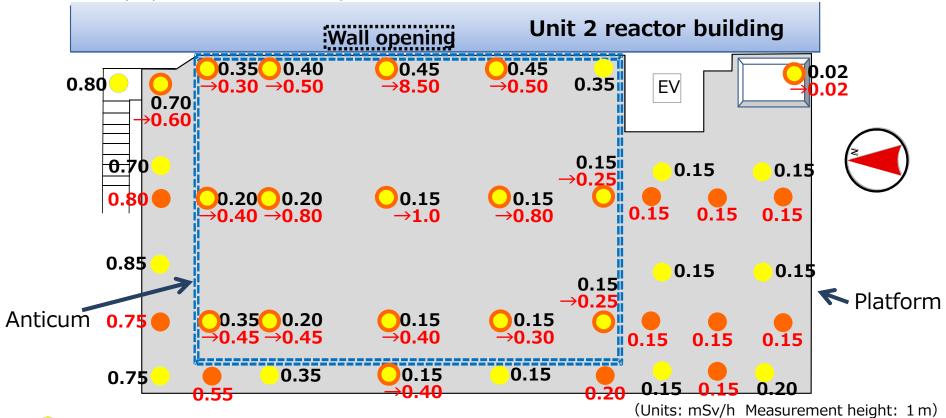
*Changes may be made to the schedule in accordance with the progress of work



The following pages are for reference purposes

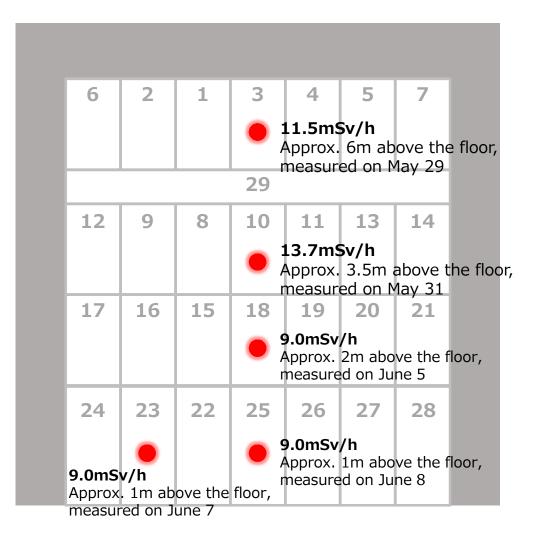


- Air dose rates above the platform to date are as follows.
- Increases were seen in dose rates nearest to the wall in particular, but were within predicted ranges, so preparations to perform an investigation of the operating floor using remotely operated robots shall proceed.

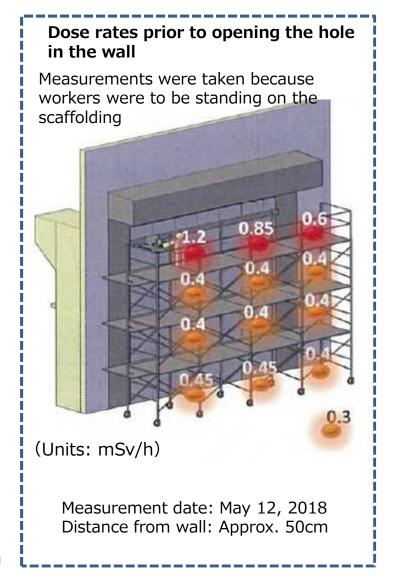


- Black numbers Measurements taken on March 23, 2018
- Red numbers Measured on June 21, 2018 (After dismantling of the wind resisting beams)





- Measurement location (horizontal): At border of R/B and anticum
- **All measurements were taken after the opening in the wall had been formed and was open



Results of dust measurements taken during work



- Dust measurements were taken at four locations along the outer perimeter of the anticum when work commenced on April 16, 2018. The maximum concentrations of radioactive substances in dust on each work day (24 hours) are as follows.
- The maximum values for the concentration of radioactive substances in dust are the same as the maximum values for the concentration of radioactive substances in dust measured on the operating floors of Units 1 and 3

 Units: Ba/cm3

	April 2018											<u> </u>	<u>л. Бц/ с</u>		
Day	15	(Sun)	16	(Mon)	17	(Tue)	18	(Wed)	19	(Thu)	20	(Fri)	21	(Sat)	
Max.	-		6.3×10 ⁻⁵		4.6×10 ⁻⁵		5.7×10 ⁻⁵		6.2×10 ⁻⁵		4.6×10 ⁻⁵		7.4×10 ⁻⁵		
Day	22	(Sun)	23	(Mon)		(Tue)		(Wed)	26	(Thu)	27	(Fri)	28	(Sat)	
Max.	_		4.6×10 ⁻⁵		4.9×10 ⁻⁵		4.7×10 ⁻⁵		6.3×10 ⁻⁵		6.3×10 ⁻⁵			_	
	May 2018														
Day	6	(Sun)	7	(Mon)	8	(Tue)	9	(Wed)	10	(Thu)	11	(Fri)	12	(Sat)	
Max.	_		4.3×10 ⁻⁵		4.7×10 ⁻⁵		5.7×10 ⁻⁵		5.0×10 ⁻⁵		4.6×10 ⁻⁵		5.6×10 ⁻⁵		
Day	13	(Sun)	14	(Mon)	15	(Tue)	16	(Wed)	17	(Thu)	18	(Fri)	19	(Sat)	
Max.	_		5.3×10 ⁻⁵		6.3×10 ⁻⁵		4.6×10 ⁻⁵		7.4×10 ⁻⁵		4.3×10 ⁻⁵		3.5×10 ⁻⁵		
Day	20	(Sun)	21	(Mon)	22	(Tue)	23	(Wed)	24	(Thu)	25	(Fri)	26	(Sat)	
Max.	_		4.9×10 ⁻⁵		4.3×10 ⁻⁵		4.9×10 ⁻⁵		3.6×10 ⁻⁵		4.0×10 ⁻⁵		4.2×10 ⁻⁵		
Day	27	(Sun)	28	(Mon)	29	(Tue)		(Wed)	31	(Thu)					
Max.	6.6×10 ⁻⁵		5.2×10 ⁻⁵		4.3×10 ⁻⁵		4.0×10 ⁻⁵		3.9	×10 ⁻⁵					
		June 2018													
Day											1	(Fri)	2	(Sat)	
Max.												<10 ⁻⁵		<u> </u>	
Day	3	(Sun)	4		5	(Tue)	6	(Wed)	7	(Thu)	8	(Fri)	9	(Sat)	
Max.	_		3.1×10 ⁻⁵		7.2×10 ⁻⁵		5.6×10 ⁻⁵		5.6×10 ⁻⁵		4.0×10 ⁻⁵		<u> </u>		
Day	10	(Sun)	11	(Mon)		(Tue)		(Wed)		(Thu)		(Fri)	16	(Sat)	
Max.	_		4.7×10 ⁻⁵		3.0×10 ⁻⁵		3.7×10 ⁻⁵		4.1×10 ⁻⁵		4.2×10 ⁻⁵		5.3×10 ⁻⁵		
Day	17	(Sun)		(Mon)	19	(Tue)		(Wed)		(Thu)	22	(Fri)	23	(Sat)	
Max.	_		6.0×10 ⁻⁵		7.0×10 ⁻⁵		4.8×10 ⁻⁵		4.0×10 ⁻⁵		4.7×10 ⁻⁵		5.0×10 ⁻⁵		

A hyphen (-) indicates that work was not performed on that day. No work was performed between April 28 and May 6