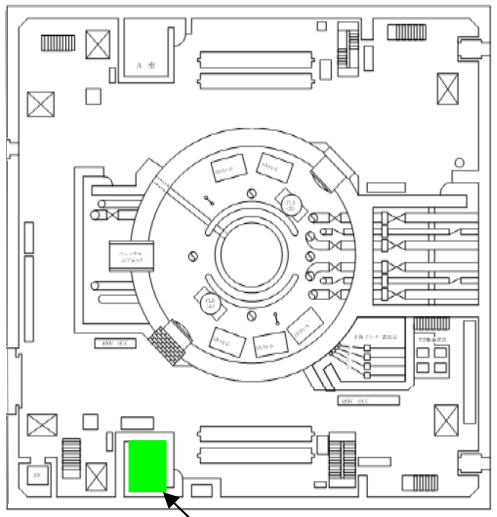
Results of Water Level Measuring inside the Suppression Chamber (S/C) at the Unit 2 in Fukushima Daiichi NPS

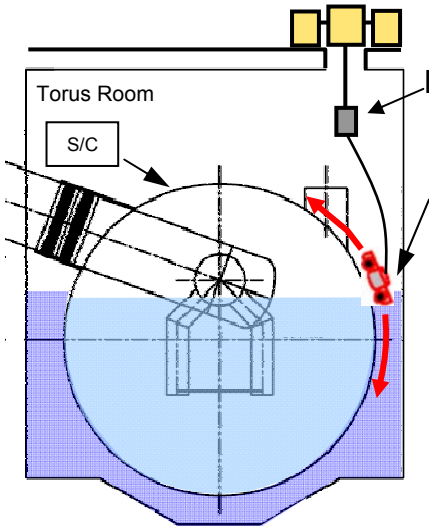
<Reference>
January 21, 2014
Tokyo Electric Power Company

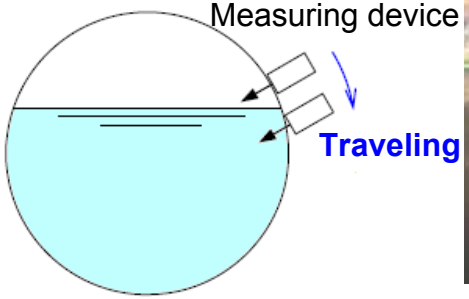
1. Measuring Method

The water level measuring device {developed and supported in the S/C Internal Water Level Measurement WG (Project Manager: Professor Matsuhira from Shibaura Institute of Technology)} developed and)will be lifted down on the surface of the S/C through a pit hole on the floor of the RHR Heat Exchanger Room (B) (which is penetrating to the Torus Room), and thus the water level inside the S/C was measured.



Lowering device installed here
(in the RHR Heat Exchanger Room on the first floor in the Unit 2)





[Image] Water level measuring inside the S/C

[Note] This water level measuring inside the S/C was conducted as a demonstration test for a measuring device developed in the project 'Development of Base Technology for Robots to Measure Water Levels inside the Suppression Chamber' by Agency of Natural Resource and Energy.

	January												
	9	10	11	12	13	14	15	16	17	18	19	20	21
Progress		Preparation				Measuring			Assess-ment			Assess-ment	

(Reference) Progress in work schedule

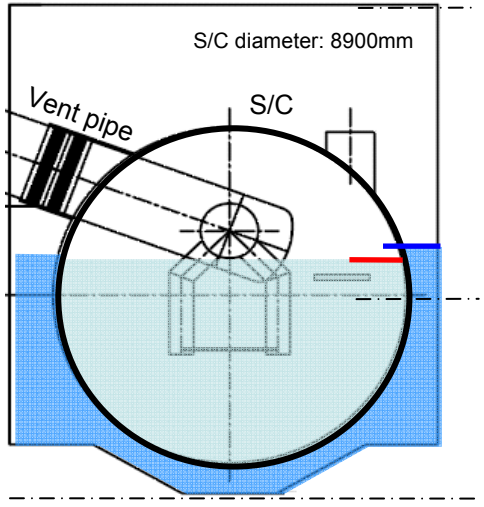
2. Result of Measuring

The measuring was conducted from January 14 to 16 at multiple lines (multiple longitudes) in order to enhance the reliability of specifying the exact water level. The numerical values of January 14 and 15 in the following chart were obtained in the middle of the series of the data collecting work.

Measuring date	January 14	January 15	January 16
Water level inside S/C	Approx. OP. 3,210 mm	Approx. OP. 3,160 mm	Approx. OP. 3,150 mm
Water level inside Torus Room (Reference)	Approx. OP. 3,230 mm	Approx. OP. 3,190 mm	Approx. OP. 3,160 mm
Water level difference	Approx. 20 mm	Approx. 30 mm	Approx. 10 mm
Measuring method	Direct distance measuring for structures the in the water		

[Note] It is estimated that the water level inside the S/C is influenced by the change of the water level of accumulating water inside the torus room.

During the water level measuring



First floor level of the Unit 2 Reactor Building: OP 10,200 mm

S/C equator : OP 1,900 mm

First basement floor of the Unit 2 Reactor Building (Lowest level): OP-3 3,360 mm

This result of the water level measuring inside the S/C will be utilized to examine a method of water stopping for the Primary Containment Vessel (PCV)