

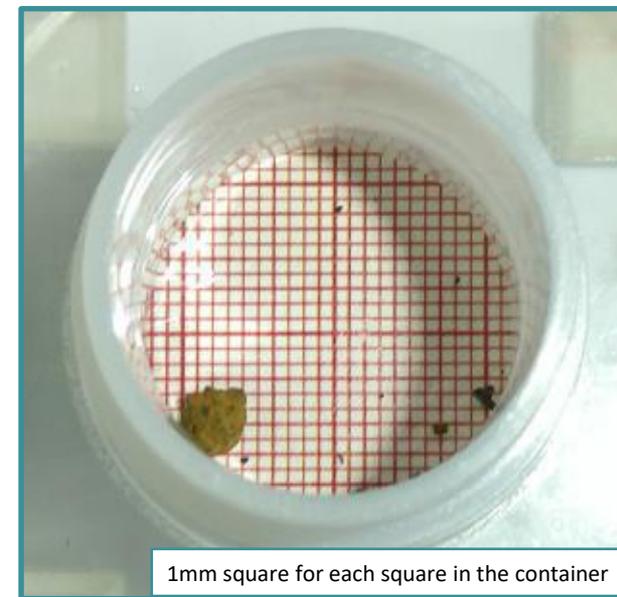
Fukushima Daiichi Nuclear Power Station

Measurement Results Taken in Preparation to Transport the Fuel Debris Sampled During the Second Fuel Debris Trial Retrieval from Unit 2 to Off-site Analysis Facility

- The fuel debris sampled during the second fuel debris trial retrieval from Unit 2 was subjected to dose rate and mass, etc. measurements in a glove box (hereinafter referred to as, “GB”) located in the Unit 2 reactor building in preparation for transport to the off-site analysis facility. (Refer to the chart below for measurement results)
- Gamma ray spectrum analysis^{※1} confirmed the possibility of the presence of Europium-154 tend to be accompanied with uranium.
- We will continue to prioritize safety as we move forward with this task.

【Measurement results taken in preparation to transport the fuel debris sampled to an off-site analysis facility】

Measurement items		Results	Date	Notes
Surface dose rate measurement	Gamma rays	Approx. 0.1mSv/h (Equivalent to ambient dose)	April 23, 2025 around 10:40 AM ~ around 11:50 AM	Measured approximately 20cm from the outside surface of the GB to the surface of the transportation box
	Beta rays	Approx. 4.5mSv/h		Measured inside the GB approximately 20cm from the surface of the transportation box with the lid opened
Mass measurement	Approx. 0.2g	Less than 3g		
Hydrogen concentration measurement	Less than detection limit (10 ppm ^{※2})	April 24, 2025 around 8:50 AM ~ around 9:00 AM	Conformed less than the detection limit ^{※3}	



【External appearance of the sampled fuel debris】
 (Photographed at around 11:10 AM on April 23, 2025)

※1: Measured the energy and intensity of emitted gamma rays and confirm the nuclides contained.

※2: ppm(parts per million); 1ppm=0.0001%

※3: During detection it is confirmed that the hydrogen concentration will not reach the inflammability limit (40,000 ppm) during transport.