(Attachment 3)

Fukushima Daiichi Nuclear Power Station: Uranium analysis result in the soil

1. Analysis result

(Unit: Bq/kg・dry soil)

Sampling spot ():Distance from the stack of Unit 1, 2	Sampling date/Analyzed organization	U-234	U-235	U-238
①Playground (west-northwest approx. 500m)	June 20/ Japan Chemical Analysis Center	11±0.58	0.57± 0.097	12±0.59
②Near the industrial waste disposal plant (south-southwest approx. 500m)		6.4±0.37	0.40± 0.079	6.2±0.35
③Adjacent to industrial waste disposal facility (south-southwest approx. 500m)		5.7±0.33	0.22± 0.055	5.7±0.33
Natural Uranium specific radioactivity (Bq/g)		1.2×10^{4}	5.7×10^{2}	1.2×10^{4}
Natural Uranium abundance ratio (wt%)		0.0054	0.72	99.3

2. Evaluation

Uranium detected for this analysis is valued as the same level as in the natural condition for the following reasons.

- Radioactive densities of U-234 and U-238 are same in the sampling ①, ② and ③, where Uranium in nature forms radioactive balance (same radioactivity density between U-234 and U-238).
- U-235 abundance ratio of the sampling ①, ② and ③ are almost same as the natural U-235 abundance ratio, which is U-235/U-238＝0.0073.

  U-235 of the sampling ①: 7.1×10-6g/kg・Dry soil (0.57Bq/kg・Dry soil)
  U-238 of the sampling ①: 9.6×10-4g/kg・Dry soil (12Bq/kg・Dry soil)
  U-235/U-238=0.0074*
  U-235 of the sampling ②: 5.0×10-6g/kg・Dry soil (0.40Bq/kg・Dry soil)
  U-238 of the sampling ②: 5.0×10-4g/kg・Dry soil (6.2Bq/kg・Dry soil)
  U-235/U-238=0.010*
  U-235 of the sampling ③: 2.7×10-6g/kg・Dry soil (0.22Bq/kg・Dry soil)
  U-238 of the sampling ③: 4.6×10-4g/kg・Dry soil (5.7Bq/kg・Dry soil)
  U-235/U-238=0.0060*

* The above values may not match the calculation due to the rounding off.

END