Appendix

The results of nuclide analysis on the ocean soil (U)

1. Result of nuclide analysis

(Measurement：Bq/kg･dry soil)

Place of Sampling ( ): distance from stuck of Unit 1 and 2	Date of Sampling/ Analysis Agency	U-234	U-235	U-238
① 3km off the coast of Odaka Ward	June 2, 2011/ Japan Chemical Analysis Center	4.7±0.30	0.19±0.050	4.5±0.29
② 3km off the coast of Iwasawa Beach		6.4±0.42	0.38±0.090	6.7±0.43
Radioactivity to natural uranium (Bq/g)		1.2×10^{4}	5.7×10^{2}	1.2×10^{4}
Abundance ratio of natural uranium (wt%)		0.0054	0.72	99.3

2. Evaluation

We evaluate that uranium detected in this sampling is the same as existing uranium in the nature based on the data below.

- Natural uranium is at radioactive equilibrium(radioactivity concentration of U-234 and U-238 are the same.) Radioactivity concentration figures of sampling number ① and ② are approximately same.
- Abundance ratio of sampling number① and ② is approximately the same as abundance ratio of Natural uranium U-235 (U-235/U-238=0.0073)

  U-235 of sampling number①: 2.4×10^{-6}g/kg･dry soil(0.19Bq/kg･dry soil)

  U-238 of sampling number①: 3.6×10^{-4}g/kg･dry soil(4.5Bq/kg･dry soil)

  U-235/U-238=0.0066※

  U-235 of sampling number②: 4.7×10^{-6}g/kg･dry soil(0.38Bq/kg･dry soil)

  U-238 of sampling number②:5.4×10^{-4}g/kg･dry soil(6.7Bq/kg･dry soil)

  U-235/U-238=0.0088※

  ※Due to rounding, some figures can possibly be different from calculation.

END