

Americium and Curium analysis result of ocean soil

## 1. Analysis result

( Unit : Bq/kg·dry soil )

Place of sampling	Date of sampling/ Analyses organization	Pu-238 <sup>*1</sup>	Pu-239 <sup>*1</sup> Pu-240 <sup>*1</sup>	U-234 <sup>*2</sup>	U-235 <sup>*2</sup>	U-238 <sup>*2</sup>	Am-241	Cm-242	Cm-243 Cm-244
3km offshore of Odaka Ward	June 2/ Japan Chemical Analysis Center	N.D. [<1.1 × 10 <sup>-2</sup> ]	(4.3 ± 0.27) × 10 <sup>-1</sup>	(4.7 ± 0.30) × 10 <sup>0</sup>	(1.9 ± 0.50) × 10 <sup>-1</sup>	(4.5 ± 0.29) × 10 <sup>0</sup>	(1.4 ± 0.15) × 10 <sup>-1</sup>	N.D. [<1.4 × 10 <sup>-2</sup> ]	N.D. [<1.3 × 10 <sup>-2</sup> ]
3km offshore of Iwasawa shore		N.D. [<1.3 × 10 <sup>-2</sup> ]	(4.5 ± 0.29) × 10 <sup>-1</sup>	(6.4 ± 0.42) × 10 <sup>0</sup>	(3.8 ± 0.90) × 10 <sup>-1</sup>	(6.7 ± 0.43) × 10 <sup>0</sup>	(1.4 ± 0.15) × 10 <sup>-1</sup>	N.D. [<1.5 × 10 <sup>-2</sup> ]	N.D. [<1.5 × 10 <sup>-2</sup> ]
Average nuclide concentration ratio of Unit 1~3 (ratio in case Pu-238 as 1) <sup>*3</sup>		1	-	-	-	-	0 . 1	1 0	1

\*1 : Announced on June 23, 2011    \*2 : Announced on July 7, 2011    \*3 : Calculated value by ORIGEN code ( Approximate figure )

## 2. Evaluation

Detected Am can not be considered to be caused by the nuclear accident of this time for the following reasons.

- Detected Pu-239 and Pu-240 are within the measured value in the past (1999 ~ 2008) around the marine area of Fukushima Daiichi and Fukushima Daini.
- Detected U-234, U-235 and U-238 can be evaluated as same level as they exist naturally.
- Nuclide of Cm-242, Cm-243 and Cm-244, which do not exist in the natural world were not detected.

END