

The results of nuclide analyses of radioactive materials in the ocean soil off the coast of Fukushima Daiichi Nuclear Power Station (continued report 9)

(Announced on July 29, 2011)

Wrong

(Attachment)

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 ^{*1}	Pu-239 ^{*1} Pu-240 ^{*1}	U-234 ^{*2}	U-235 ^{*2}	U-238 ^{*2}	Am-241	Cm-242	Cm-243 Cm-244
3km offshore of Odaka Ward	June 2/ Japan	N.D. [<1.1 × 10 ⁻²]	(4.3 ± 0.27) × 10 ⁻¹	(4.7 ± 0.30) × 10 ⁰	(1.9 ± 0.50) × 10 ⁻¹	(4.5 ± 0.29) × 10 ⁰	(1.4 ± 0.15) × 10 ⁻¹	N.D. [<1.4 × 10 ⁻²]	N.D. [<1.3 × 10 ⁻²]
3km offshore of Iwasawa shore	Chemical Analysis Center	N.D. [<1.3 × 10 ⁻²]	(4.5 ± 0.29) × 10 ⁻¹	(6.4 ± 0.42) × 10 ⁰	(3.8 ± 0.90) × 10 ⁻¹	(6.7 ± 0.43) × 10 ⁰	(1.4 ± 0.15) × 10 ⁻¹	N.D. [<1.5 × 10 ⁻²]	N.D. [<1.5 × 10 ⁻²]
Average nuclide concentration ratio of Unit 1-3 (ratio in case Pu-238 as 1) ^{*3}		1	-	-	-	-	0.1	1.0	1

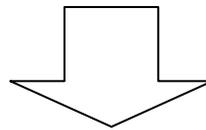
*1: Announced on June 23, 2011 *2: Announced on July 7, 2011 *3: Calculated value by ORIGEN code (Approximate figure)

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



Wrong: + → Correct: ±

Correct

(Attachment)

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Average nuclide concentration ratio of Unit 1 ~ 3 (ratio in case Pu-238 as 1) ^{*3}		1	-	-	-	-	0 . 1	1 0	1

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