"Nuclide analysis result of radioactive materials in the soil of Fukushima Daiichi Nuclear Power Station (26th release)" (released on July 29th, 2011)

(Attachment 3)

Wrong

Fukushima Daiichi Nuclear Power Station: Americium and Curium analysis result in the soil

1.Analysis result

(Unit : Bq/kg· wet soil)

Sampling spot (): Distance from the stack of Unit 1, 2	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
Playground (west-northwest approx. 500m)	June 6/ Japan Chemical	(1.7±0. 14) ×10 ⁻¹	(6.6±0.80) ×10 ⁻²	(8.0+0.41) ×10 ⁰	(3.8±0.72) ×10 ⁻¹	(8.8±0.44) ×10 ⁰	(3.4±0.74) ×10 ⁻²	(1.7+0.083) ×10 ⁰	(1.1±0.14) ×10 ⁻¹
Adjacent to industrial waste disposal facility (south-southwest approx. 500m)	Analysis Center	(6.7±0.91) ×10 ⁻²	(2.6±0.54) ×10 ⁻²	(5.9±0.36) ×10 ⁰	(2.9±0.70) ×10 ⁻¹	(5.7±0.35) ×10 ⁰	(2.2±0.55) ×10 ⁻²	(1.1+0.052) ×10 ⁰	(4.1±0.75) ×10 ⁻²
Average nuclide concentration ratio of Unit 1 \sim 3 (ratio in case Pu-238 as 1) *3		1	-	-	-	-	0.1	1 0	1

^{*1:} Announced on June 22, 2011

2. Evaluation

Detected Am and CM can be considered to be caused by the nuclear accident of this time.

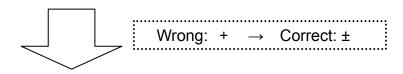
^{*2:} Announced on July 7, 2011

^{*3 :} Calculated value by ORIGEN code (Approximate figure)

- Nuclide of Cm-242/Cm-243/Cm-244 do not exist in the natural world and especially, Cm-242 (half-life : approx. 160 days), which has relatively short half-life be detected.
- Concentration ratio of each nuclide (Am-241/Cm-242/Cm-243,Cm-244) against sampling number and of Pu-238 is almost as same as the average composition ratio of Unit 1 ~ 3.

Sampling number Pu-238:(Am-241/Cm-242/Cm-243,Cm-244) 1 : (0.2/10/0.6)
Sampling number Pu-238:(Am-241/Cm-242/Cm-243,Cm-244) 1 : (0.3/16/0.6)

END



Correct

(Attachment 3)

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Playground(west-northwest approx. 500m)	June 6/ Japan Chemical	(1.7±0. 14) ×10 ⁻¹	(6.6±0.80) ×10 ⁻²	(8.0±0.41) ×10 ⁰	(3.8±0.72) ×10 ⁻¹	(8.8±0.44) ×10 ⁰	(3.4±0.74) ×10 ⁻²	(1.7 ± 0.083) ×10 ⁰	(1.1±0.14) ×10 ⁻¹
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1.Analysis result

(Unit: Bq/kg·wet soil)

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Playground (west-northwest approx. 500m)	June 6/	(1.7±0.14) ×10 ⁻¹	(6.6±0.80) ×10 ⁻²	(8.0±0.41) ×10 ⁰	(3.8±0.72) ×10 ⁻¹	(8.8±0.44) ×10 ⁰	(3.4±0.74) ×10 ⁻²	(1.7 ± 0.083) $\times 10^{0}$	(1.1±0.14) ×10 ⁻¹
Adjacent to industrial waste disposal facility (south-southwest approx. 500m)	Japan Chemical Analysis Center	(6.7±0.91) ×10 ⁻²	(2.6±0.54) ×10 ⁻²	(5.9±0.36) ×10 ⁰	(2.9±0.70) ×10 ⁻¹	(5.7±0.35) ×10 ⁰	(2.2±0.55) ×10 ⁻²	(1.1 ± 0.052) $\times 10^{0}$	(4.1±0.75) ×10 ⁻²
Average nuclide concentration ratio of Unit 1 \sim 3 (ratio in case Pu-238 as 1) *3		1	-	-	-	-	0 . 1	1 0	1

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