Result of Sr nuclide analysis in the soil Fukushima Daiichi Nuclear Power Station <1/3>

1. Measurement Result:

(Data summarized on June 27)

(Unit		Ro	ı/ka	٠dr	/ soil	١
	Unit	•	DY	μng	ury	301	,

			(1 3 7 7 7
Place of Sampling The Distance from Unit 1-2 Stacks in parentheses.	Date	Sr-89	Sr-90
(1) Ground (WNW approx. 500m)* ¹	Oct 14, 2013	N.D.	(2.0±0.07)×10 ¹
(2) Yachounomori (W approx. 500m)* ¹		N.D.	(5.4±0.11)×10 ¹
(3) Around industrial waste treatment facility (SSW approx.		N.D.	(4.7±0.11)×10 ¹
The range of the past measurement FY2008) ^{*2}	-	N.D. ~ 4.3	

*1 Sampling was conducted in the area adjacent to the past sampling location to avoid duplication. *2 Source "Report on the environmental radioactivity measurement around the Nuclear Power Plant (FY2009)", Committee on the safety technology of Nuclear Power Plants in Fukushima.

- 2. Analytical Institution: KAKEN Inc.
- 3. Evaluation:

The densities of Sr-90 are higher than those of the fallouts observed in Japan after the past atmospheric nuclear tests. Therefore, there is a possibility that the higher densities originate from the accident this time.

Result of Sr nuclide analysis in the soil Fukushima Daiichi Nuclear Power Station <2/3>

1. Measurement Result:

(Data summarized on June 27)

(Unit		Bo	/ka	• drv	soil	١
	Onit	•	ЪЧ	/ng	ury	301	,

			(0
Place of Sampling The Distance from Unit 1-2 Stacks in parentheses.	Date	Sr-89	Sr-90
(1) Ground (WNW approx. 500m)* ¹		N.D.	(1.5±0.05)×10 ¹
(2) Yachounomori (W approx. 500m)* ¹	Nov 11, 2013	N.D.	(8.0±0.44)×10 ¹
(3) Around industrial waste treatment facility (SSW approx.		N.D.	(1.7±0.029)×10 ²
The range of the past measurement FY2008) ^{*2}	-	N.D. ~ 4.3	

*1 Sampling was conducted in the area adjacent to the past sampling location to avoid duplication. *2 Source "Report on the environmental radioactivity measurement around the Nuclear Power Plant (FY2009)", Committee on the safety technology of Nuclear Power Plants in Fukushima.

- 2. Analytical Institution: KAKEN Inc.
- 3. Evaluation:

The densities of Sr-90 are higher than those of the fallouts observed in Japan after the past atmospheric nuclear tests. Therefore, there is a possibility that the higher densities originate from the accident this time.

Result of Sr nuclide analysis in the soil Fukushima Daiichi Nuclear Power Station <3/3>

1. Measurement Result:

(Data summarized on June 27)

(Unit		Bo	/ka	• drv	soil	١
	Onit	•	ЪЧ	/ng	ury	301	,

			(=
Place of Sampling The Distance from Unit 1-2 Stacks in parentheses.	Date	Sr-89	Sr-90
(1) Ground (WNW approx. 500m)* ¹		N.D.	(5.6±0.13)×10 ¹
(2) Yachounomori (W approx. 500m)* ¹	Dec 16, 2013	N.D.	(1.0±0.017)×10 ²
(3) Around industrial waste treatment facility (SSW approx.		N.D.	(3.6±0.10)×10 ¹
The range of the past measurement FY2008) ^{*2}	-	N.D. ~ 4.3	

*1 Sampling was conducted in the area adjacent to the past sampling location to avoid duplication. *2 Source "Report on the environmental radioactivity measurement around the Nuclear Power Plant (FY2009)", Committee on the safety technology of Nuclear Power Plants in Fukushima.

- 2. Analytical Institution: KAKEN Inc.
- 3. Evaluation:

The densities of Sr-90 are higher than those of the fallouts observed in Japan after the past atmospheric nuclear tests. Therefore, there is a possibility that the higher densities originate from the accident this time.

Result of Pu nuclide analysis in the soil Fukushima Daiichi Nuclear Power Station

1. Measurement Result:

(Data summarized on June 27)

('Unit	:	Bq/kg	• drv	soil)	
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Place of Sampling The Distance from Unit 1-2 Stacks in parentheses.	Date	Pu-238	Pu-239+Pu-240
(1) Ground (WNW approx. 500m)* ¹		(3.8±0.86)×10 ⁻²	(2.5±0.70)×10 ⁻²
(2) Yachounomori (W approx. 500m)* ¹	Jan 13, 2014	N.D [2.2×10 ⁻²]	(4.2±1.0)×10 ⁻²
(3) Around industrial waste treatment facility (SSW approx.		N.D [2.4×10 ⁻²]	(6.4±1.4)×10 ⁻²
Domestic soil $(1978 - 2008)^{*2}$		N.D. ~ 1.5×10 ⁻¹	N.D. ~ 4.5

[] shows below the detection limit.

*1 Sampling was conducted in the area adjacent to the past sampling location to avoid duplication. *2 Source: "Environmental Radiation Database"

(Ministry of Education, Culture, Sports, Science and Technology)

2. Analytical Institution: KAKEN Inc.

3. Evaluation:

The densities of Pu-238, Pu-239 and Pu-240 detected on January 13, 2014 are the same level as those of the fallouts observed in Japan after the past atmospheric nuclear tests. However, there is a possibility that the higher densities originate from the accident this time, taking the previous analysis results into consideration.

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