Result of Sr nuclide analysis in the soil Fukushima Daiichi Nuclear Power Station <1/2>

Data summarized on October 21, 2014)

1. Results:

(Unit : Bq/kg·Dry Soil)

Place of Sampling The Distance from Unit 1-2 Stacks in	Date of Sampling	Sr-89	Sr-90
(1) Ground (WNW approx. 500m)*1	May 12, 2014	N.D.	(6.2±0.10) × 10^1
(2) Yachounomori (W approx. 500m)*1	May 12, 2014	N.D.	(1.5±0.10)×10^1
(3) Around industrial waste treatment facility (SSW approx. 500m)*1	May 12, 2014	N.D.	(2.7±0.10)×10^1
The range of the past measurement results (FY1999 - FY2008)*2		_	ND~4.3

^{*1} Sampling was conducted in the area adjacent to the past sampling location to avoid duplication.

2. Analyzed by: KAKEN Co., Ltd

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.

^{*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.

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

Data summarized on October 21, 2014)

1. Results:

(Unit : Bq/kg·Dry Soil)

Place of Sampling The Distance from Unit 1-2 Stacks in	Date of Sampling	Sr-89	Sr-90
(1) Ground (WNW approx. 500m)*1	Jun 11, 2014	N.D.	(4.0±0.10)×10^1
(2) Yachounomori (W approx. 500m)*1	Jun 11, 2014	N.D.	(5.2±0.10)×10^1
(3) Around industrial waste treatment facility (SSW approx. 500m)*1	Jun 11, 2014	N.D.	(9.4±0.10)×10^1
The range of the past measurement results (FY1999 - FY2008)*2		_	ND~4.3

^{*1} Sampling was conducted in the area adjacent to the past sampling location to avoid duplication.

2. Analyzed by: KAKEN Co., Ltd

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.

^{*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.

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

Data summarized on October 21, 2014)

1. Measurement Result:

(Unit: Bq/kg·dry soil)

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		(5.8±0.88)×10 ⁻²	(2.7±0.58)×10 ⁻²
(2) Yachounomori (W approx. 500m)*1	May 12, 2014	N.D [1.5×10 ⁻²]	(1.9±0.18)×10 ⁻²
(3) Around industrial waste treatment facility (SSW approx.		(4.4±0.94)×10 ⁻²	N.D [1.7×10 ⁻²]
Domestic soil (1978 – 2008)*2		N.D. ~ 1.5×10 ⁻¹	N.D. ~ 4.5

[] shows below the detection limit.

(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 May 12, 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.

End

^{*1} Sampling was conducted in the area adjacent to the past sampling location to avoid duplication.

^{*2} Source: "Environmental Radiation Database"