Nuclides Analysis Result of the Gamma Rays in the Soil of Fukushima Daiichi NPS (1/3)

(Data summarized on Nov 28)

1. Measurement Result: The following is the analysis result of y ray nuclides in the soil measured at Fukushima Daiichi NPS

(Unit: Bq/kg·Dry Soil)

Place of Sampling		[Fixed Point ①]*1 Ground (Approx. 500m West-Northwest)*2	【Fixed Point ②】*1 Wild Birds' Forest (Approx. 500m West)*2	【Fixed Point ③】*1 Near the Industrial Waste Disposal Facility (Approx. 500m South-Southwest)*2
	Date of Sampling	Jul 7, 2014	Jul 7, 2014	Jul 7, 2014
	Analyzed by	KAKEN Inc.	KAKEN Inc.	KAKEN Inc.
Nuclides	I-131 (Approx. 8 days)	ND	ND	ND
	I-132 (Approx. 2 hours)	ND	ND	ND
	Cs-134 (Approx. 2 years)	1.3E+04	8.1E+03	2.7E+04
	Cs-136 (Approx. 13 days)	ND	ND	NE
	Cs-137 (Approx. 30 years)	4.4E+04	2.7E+04	8.7E+04
	Sb-125 (Approx. 3 years)	ND	ND	NE
	Te-129m (Approx. 34 days)	ND	ND	NE
	Te-132 (Approx. 78 hours)	ND	ND	NE
	Ba-140 (Approx. 13 days)	ND	ND	NE
	Nb-95 (Approx. 35 days)	ND	ND	NE
	Ru-106 (Approx. 370 days)	ND	ND	NE
	Mo-99 (Approx. 66 hours)	ND	ND	NE
	Tc-99m (Approx. 6 hours)	ND	ND	NE
	La-140 (Approx. 40 hours)	ND	ND	NE
	Ag-110m (Approx. 250 days)	ND	ND	NE

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

*2 The Distance from Unit 1-2 Stacks

2. Evaluation: The following is the analysis result of γ ray nuclides in the soil measured in Fukushima Prefecture in FY2009. Radioactive materials of higher density are detected this time supposedly due to the accident.

< Soil Analysis Result Provided by Fukushima Prefecture in FY2009 >

Cs-137: ND - 21Bq/kg, Dry Soil, Others: ND

Nuclides Analysis Result of the Gamma Rays in the Soil of Fukushima Daiichi NPS (2/3)

(Data summarized on Nov 28)

1. Measurement Result: The following is the analysis result of γ ray nuclides in the soil measured at Fukushima Daiichi NPS

(Unit: Bq/kg · Dry Soil)

				(ente bang bij een)
Place of Sampling		【Fixed Point ①】*1 Ground (Approx. 500m West-Northwest)*2	【Fixed Point ②】*1 Wild Birds' Forest (Approx. 500m West)*2	[Fixed Point ③]*1 Near the Industrial Waste Disposal Facility (Approx. 500m South-Southwest)*2
	Date of Sampling	Aug 14, 2014	Aug 14, 2014	Aug 14, 2014
	Analyzed by	KAKEN Inc.	-	KAKEN Inc.
Nuclides	I-131 (Approx. 8 days)	ND	ND	ND
	I-132 (Approx. 2 hours)	ND	ND	ND
	Cs-134 (Approx. 2 years)	3.1E+04	8.1E+04	1.0E+05
	Cs-136 (Approx. 13 days)	ND	ND	ND
	Cs-137 (Approx. 30 years)	1.0E+05	2.7E+05	3.3E+05
	Sb-125 (Approx. 3 years)	ND	ND	ND
	Te-129m (Approx. 34 days)	ND	ND	ND
	Te-132 (Approx. 78 hours)	ND	ND	ND
	Ba-140 (Approx. 13 days)	ND	ND	ND
	Nb-95 (Approx. 35 days)	ND	ND	ND
	Ru-106 (Approx. 370 days)	ND	ND	ND
	Mo-99 (Approx. 66 hours)	ND	ND	ND
	Tc-99m (Approx. 6 hours)	ND	ND	ND
	La-140 (Approx. 40 hours)	ND	ND	ND
	Ag-110m (Approx. 250 days)	ND	ND	ND

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

*2 The Distance from Unit 1-2 Stacks

2. Evaluation: The following is the analysis result of γ ray nuclides in the soil measured in Fukushima Prefecture in FY2009. Radioactive materials of higher density are detected this time supposedly due to the accident.

< Soil Analysis Result Provided by Fukushima Prefecture in FY2009 >

Cs-137: ND - 21Bq/kg, Dry Soil, Others: ND

Nuclides Analysis Result of the Gamma Rays in the Soil of Fukushima Daiichi NPS (3/3)

(Data summarized on Nov 28)

1. Measurement Result: The following is the analysis result of γ ray nuclides in the soil measured at Fukushima Daiichi NPS

(Unit: Bq/kg · Dry Soil)

				(ente bang bij een)
Place of Sampling		【Fixed Point ①】*1 Ground (Approx. 500m West-Northwest)*2	【Fixed Point ②】*1 Wild Birds' Forest (Approx. 500m West)*2	[Fixed Point ③]*1 Near the Industrial Waste Disposal Facility (Approx. 500m South-Southwest)*2
	Date of Sampling	Sep 8, 2014	Sep 8, 2014	Sep 8, 2014
	Analyzed by	KAKEN Inc.	-	KAKEN Inc.
Nuclides	I-131 (Approx. 8 days)	ND	ND	ND
	I-132 (Approx. 2 hours)	ND	ND	ND
	Cs-134 (Approx. 2 years)	4.7E+04	2.9E+04	9.8E+04
	Cs-136 (Approx. 13 days)	ND	ND	ND
	Cs-137 (Approx. 30 years)	1.6E+05	9.8E+04	3.4E+05
	Sb-125 (Approx. 3 years)	ND	ND	ND
	Te-129m (Approx. 34 days)	ND	ND	ND
	Te-132 (Approx. 78 hours)	ND	ND	ND
	Ba-140 (Approx. 13 days)	ND	ND	ND
	Nb-95 (Approx. 35 days)	ND	ND	ND
	Ru-106 (Approx. 370 days)	ND	ND	ND
	Mo-99 (Approx. 66 hours)	ND	ND	ND
	Tc-99m (Approx. 6 hours)	ND	ND	ND
	La-140 (Approx. 40 hours)	ND	ND	ND
	Ag-110m (Approx. 250 days)	ND	ND	ND

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

*2 The Distance from Unit 1-2 Stacks

2. Evaluation: The following is the analysis result of γ ray nuclides in the soil measured in Fukushima Prefecture in FY2009. Radioactive materials of higher density are detected this time supposedly due to the accident.

< Soil Analysis Result Provided by Fukushima Prefecture in FY2009 >

Cs-137: ND - 21Bq/kg, Dry Soil, Others: ND

Result of Sr nuclide analysis in the soil Fukushima Daiichi Nuclear Power Station<1/4>

1. Measurement Result:

(Data summarized on Nov 28)

(Unit :	Bq/kg·dry soil)

Place of Sampling The Distance from Unit 1-2 Stacks in parentheses.	Date	Sr-89	Sr-90
(1) Ground (WNW approx. 500m)* ¹	Dec 10, 2012	N.D.	(1.0±0.052)×10 ²
(2) Yachounomori (W approx. 500m)*1		N.D.	(7.8±0.44)×10 ¹
(3) Around industrial waste treatment facility (SSW approx. 500m)* ¹		N.D.	(2.1±0.060)×10 ²
The range of the past measurement results (FY?	1999 - 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. 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<2/4>

1. Measurement Result:

(Data summarized on Nov 28)

(Unit :	Bq/kg·dry soil)

Place of Sampling The Distance from Unit 1-2 Stacks in parentheses.	Date	Sr-89	Sr-90
(1) Ground (WNW approx. 500m)* ¹	Jan 21, 2013	N.D.	(7.4±0.45)×10 ¹
(2) Yachounomori (W approx. 500m)* ¹		N.D.	ND
(3) Around industrial waste treatment facility (SSW approx. 500m)* ¹		N.D.	(1.0±0.45)×10 ²
The range of the past measurement results (FY1	1999 - 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. 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<3/4>

1. Measurement Result:

(Data summarized on Nov 28)

('Unit	÷	Bq/kg	• drv	soil)
	Onit		Dyng	ury	3011	,

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.	(5.2±0.39)×10 ¹
(2) Yachounomori (W approx. 500m)* ¹	Feb 11, 2013	N.D.	N.D
(3) Around industrial waste treatment facility (SSW approx. 500m)* ¹		N.D.	(1.2±0.047)×10 ²
The range of the past measurement results (FY1	-	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. 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<4/4>

1. Measurement Result:

(Data summarized on Nov 28)

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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.	N,D
(2) Yachounomori (W approx. 500m)* ¹	Mar 11, 2013	N.D.	(6.4±0.53)×10 ¹
(3) Around industrial waste treatment facility (SSW approx. 500m)* ¹		N.D.	(1.7±0.085)×10 ²
The range of the past measurement results (FY?	-	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. 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.