

Fukushima Daiichi Nuclear Power Plant Nuclide analysis results of gamma rays in the soil

1. Result of measurement: Nuclide analysis results of gamma rays in the soil in the power plant are as follows. We analyzed all of the samples in which Pu was analyzed.
2. Evaluation: Nuclide analysis results of gamma rays in the soil measured in 2009 in Fukushima Prefecture are as follows. Compared with this result, highly concentrated radioactive materials were detected.

< Result of the analysis of the soil by Fukushima Prefecture in 2009 >

Cs-137: ND~21Bq/kg·Dry soil, Others: ND

(Unit: Bq/kg·oven-dry soil)

Place of Sampling		[Fixed point]*1 Ground (West-northwest approx. 500m)*2	[Fixed point]*1 Wild birds' forest (West approx. 500m)*2	[Fixed point]*1 Near the industrial waste disposal facility (South-southwest approx. 500m)*2
Date of sampling		Feb 27, 2012	Feb 27, 2012	Feb 27, 2012
Analyzed by		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of Analysis		Feb 29, 2012	Feb 29, 2012	Feb 29, 2012
Nuclide	I-131(approx. 8-day)	ND	ND	ND
	I-132(approx. 2-hour)	ND	ND	ND
	Cs-134(approx. 2-year)	4.9E+04	4.0E+02	3.2E+05
	Cs-136(approx. 13-day)	ND	ND	ND
	Cs-137(approx. 30-year)	6.2E+04	5.3E+02	4.2E+05
	Sb-125(approx. 3-year)	ND	ND	ND
	Te-129m(approx. 34-day)	ND	ND	ND
	Te-132(approx. 78-hour)	ND	ND	ND
	Ba-140(approx. 13-day)	ND	ND	ND
	Nb-95(approx. 35-day)	ND	ND	ND
	Ru-106(approx. 370-day)	ND	ND	ND
	Mo-99(approx. 66-hour)	ND	ND	ND
	Tc-99m(approx. 6-hour)	ND	ND	ND
	La-140(approx. 40-hour)	ND	ND	ND
	Be-7(approx. 53-day)	ND	ND	ND
	Ag-110m(approx. 250-day)	ND	ND	ND

*1 “ Ground”, “ Near the industrial waste disposal facility”: Collected at adjoining sites in order to avoid overlap with the past samplings.

“ Wild birds' forest”: Collected vertically at each site (collection continued at one site unless no more sample was able to be collected)

*2 Distance from the stacks of the Unit 1 and 2

*3 Half-life correction for the period until the collection of the samples was not made in the analysis result by Japan Chemical Analysis Center.

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Date of sampling	Mar 05, 2012	Mar 05, 2012	Mar 05, 2012	
Analyzed by	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	
Date of Analysis	Mar 06, 2012	Mar 06, 2012	Mar 06, 2012	
Nuclide	I-131(approx. 8-day)	ND	ND	
	I-132(approx. 2-hour)	ND	ND	
	Cs-134(approx. 2-year)	2.9E+05	5.0E+02	6.6E+04
	Cs-136(approx. 13-day)	ND	ND	ND
	Cs-137(approx. 30-year)	3.9E+05	6.6E+02	8.2E+04
	Sb-125(approx. 3-year)	ND	ND	ND
	Te-129m(approx. 34-day)	ND	ND	ND
	Te-132(approx. 78-hour)	ND	ND	ND
	Ba-140(approx. 13-day)	ND	ND	ND
	Nb-95(approx. 35-day)	ND	ND	ND
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