

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

1. Result of measure 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 13, 2012	Feb 13, 2012	Feb 13, 2012
Analyst		Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3
Date of measure		Feb 16, 2012	Feb 16, 2012	Feb 16, 2012
N u c l i d e s	I-131(about 8 days)	ND	ND	ND
	I-132(about 2 hours)	ND	ND	ND
	Cs-134(about 2 years)	5.3E+05	1.1E+03	4.2E+05
	Cs-136(about 13 days)	ND	ND	ND
	Cs-137(about 30 years)	6.7E+05	1.6E+03	5.4E+05
	Sb-125(about 3 years)	ND	ND	ND
	Te-129m(about 34 days)	ND	ND	ND
	Te-132(about 78 hours)	ND	ND	ND
	Ba-140(about 13 days)	ND	ND	ND
	Nb-95(about 35 days)	ND	ND	ND
	Ru-106(about 370 days)	ND	ND	ND
	Mo-99(about 66 hours)	ND	ND	ND
	Tc-99m(about 6 hours)	ND	ND	ND
	La-140(about 40 hours)	ND	ND	ND
	Be-7(about 53 days)	ND	ND	ND
Ag-110m(about 250 days)	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	Feb 20, 2012	Feb 20, 2012	Feb 20, 2012	
Analyst	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	Japan Chemical Analysis Center*3	
Date of measure	Feb 21, 2012	Feb 21, 2012	Feb 21, 2012	
N u c l i d e s	I-131(about 8 days)	ND	ND	
	I-132(about 2 hours)	ND	ND	
	Cs-134(about 2 years)	1.3E+05	1.2E+03	4.2E+05
	Cs-136(about 13 days)	ND	ND	ND
	Cs-137(about 30 years)	1.6E+05	1.6E+03	5.4E+05
	Sb-125(about 3 years)	ND	ND	ND
	Te-129m(about 34 days)	ND	ND	ND
	Te-132(about 78 hours)	ND	ND	ND
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	Ru-106(about 370 days)	ND	ND	ND
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	Be-7(about 53 days)	ND	ND	ND
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