

Nuclide Analysis Results of Radioactive Fallout at and around the Site of Fukushima Daiichi

Reference

	Sampling point	Sampling Period		Radioactivity density of samples (Bq / m ²) (half life)		
		From	To	I - 131 (approx. 8 days)	Cs - 134 (approx. 2 years)	Cs - 137 (approx. 30 years)
Fukushima Daiichi NPS	Environment Management Building	2011/9/1 13:35	2011/10/3 11:40	ND	8400	10000
	Environment management building (rooftop)	2011/9/1 13:50	2011/10/3 14:30	ND	8900	11000
around 5 km	5 km north	2011/8/22 14:10	2011/9/22 13:15	ND	1200	1500
	5 km northwest	2011/8/22 14:40	2011/9/22 13:40	ND	1100	1200
	5 km west	2011/8/22 17:50	2011/9/22 12:20	ND	2000	2200
	5 km southwest	2011/9/1 14:20	2011/10/3 11:10	ND	1400	1500
	5 km south	2011/8/22 18:50	2011/9/22 11:40	ND	320	380
around 10 km	10 km north	2011/8/22 11:30	2011/9/22 13:50	ND	ND	ND
	10 km northwest	2011/8/22 12:20	2011/9/22 14:20	ND	120	160
	10 km west	2011/9/1 15:00	2011/10/3 10:20	ND	4600	5500
	10 km southwest	2011/8/22 17:10	2011/9/22 11:25	ND	280	310
	10 km south	2011/8/22 16:00	2011/9/22 10:22	ND	220	94
	10 km south (rooftop)	2011/8/22 15:50	2011/9/22 10:45	ND	260	110
Fukushima Daini NPS	Administrative office building	2011/8/31 15:00	2011/10/3 14:20	ND	370	440
	Administrative office building (rooftop)	2011/8/31 15:50	2011/10/3 15:45	ND	ND	ND

$$Bq / m^2 = MBq / km^2$$

When the sampled data are below the detection limits of radioactive density (I-131: approx. 340 Bq/m², Cs-134: approx. 120 Bq/m², Cs-137: approx. 130 Bq/m²), they are shown as "ND". However, there are cases that they are detected even below these limits, since the detection limits depend on the detectors and the sample condition.

The results of trial sampling of fallout at Environment management building which were conducted in order to evaluate the analysis methods etc. are as follows:

Environment management building:

Sampling period:

from 14:00, July 13 to 13:55, August 1, 2011, Cs-134: approx. 22000 Bq/m², Cs-137: approx 25000 Bq/m² (reference)

from 13:55, August 1 to 13:35, September 1, 2011, Cs-134: approx. 52000 Bq/m², Cs-137: approx. 5800 Bq/m² (reference)

Environment management building (rooftop)

Sampling period:

from 14:10, July 13 to 13:40, August 1, 2011, Cs-134: approx. 20000 Bq/m², Cs-137: approx. 23000 Bq/m² (reference)

from 13:40, August 1 to 13:50, September 1, 2011, Cs-134: approx. 12000 Bq/m², Cs-137: approx. 14000 Bq/m² (reference)

I-131 is below the detection limits.