

Nuclide Analysis Results of Radioactive Materials in the Air
at the Upper Part of the Reactor Building of Unit 1, Fukushima Daiichi < 1/2 >

Reference

(Data summarized on Nov. 7)

Place of Sampling	Upper part of reactor building of Unit 1 (around machine hatch opening 4th floor)		Upper part of reactor building of Unit 1 (large equipment hatch of reactor building)		/		Density limit by the announcement of Reactor Regulation (Bq/cm ³) (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)
	Time of Sampling	Nov 4, 2011 13:35 ~ 14:35	Nov 4, 2011 13:35 ~ 14:35	Time of Sampling	Nov 4, 2011 13:35 ~ 14:35	Time of Sampling	
Detected Nuclides (Half-life)	density of sample (Bq/cm ³)	Scaling Factor (/)	density of sample (Bq/cm ³)	Scaling Factor (/)	density of sample (Bq/cm ³)	Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	/	/	1E-03
Cs-134 (about 2 years)	1.4E-04	0.07	ND	-	/	/	2E-03
Cs-137 (about 30 years)	2.0E-04	0.07	1.8E-05	0.01	/	/	3E-03

* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

O.OE - O means O.O x 10-O

Data of other nuclides are under examination.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* "ND" means the sampled data is below measurable limit.

The followings show the detection limits.

Volatile: I-131: approx. 6E-6Bq/cm³, Cs-134: approx. 2E-5Bq/cm³

Particulate: I-131: approx. 4E-6Bq/cm³, Cs-134: approx. 9E-6Bq/cm³, Cs-137: approx. 1E-5Bq/cm³

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

Nuclide Analysis Results of Radioactive Materials in the Air
at the Upper Part of the Reactor Building of Unit 1, Fukushima Daiichi < 2/2 >

Reference

(Data summarized on Nov. 7)

Place of Sampling	Upper part of reactor building of Unit 1 (entrance of cover exhaust system filter)	Upper part of reactor building of Unit 1 (exit of cover exhaust system filter)					Density limit by the announcement of Reactor Regulation (Bq/cm ³) (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)
Time of Sampling	Nov 4, 2011 9:08 ~ 10:08	Nov 4, 2011 8:56 ~ 9:56					
Detected Nuclides (Half-life)	density of sample (Bq/cm ³)	Scaling Factor (/)	density of sample (Bq/cm ³)	Scaling Factor (/)	density of sample (Bq/cm ³)	Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-			1E-03
Cs-134 (about 2 years)	2.5E-05	0.01	ND	-			2E-03
Cs-137 (about 30 years)	3.2E-05	0.01	ND	-			3E-03

* O.OE - O means O.O x 10-O

Data of other nuclides are under examination.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* "ND" means the sampled data is below measurable limit.

The followings show the detection limits.

I-131: approx. 7E-7Bq/cm3, Cs-134: approx. 1E-6Bq/cm3, Cs-137: approx. 1E-6Bq/cm3

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

This survey shows results of the nuclide analysis of particulate radioactive materials in the air.