

Nuclide Analysis Results of Radioactive Materials in the Air
at the Upper Part of the Reactor Building, Fukushima Daiichi < 1/4 >

(Data summarized on December 5)

Place of Sampling	Upper part of reactor building of Unit 1 (inlet of cover ventilation system filter)		Upper part of reactor building of Unit 1 (outlet of cover ventilation system filter)		Upper part of reactor building of Unit 1 (northwest corner of cover)		Upper part of reactor building of Unit 1 (northeast corner of cover)		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	2011/12/2 4:11 ~ 5:11		2011/12/2 9:03 ~ 10:03		2011/12/2 8:16 ~ 9:16		2011/12/2 7:15 ~ 8:15		
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 (/)	density of sample (Bq/cm ³)	Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	
Cs-134 (about 2 years)	2.2E-05	0.01	ND	-	1.8E-05	0.01	1.6E-05	0.01	2E-03
Cs-137 (about 30 years)	3.4E-05	0.01	ND	-	2.4E-05	0.01	2.4E-05	0.01	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.

* When the radioactivity density is below the detection limit, it shows "ND" which means "Not Detectable".

The followings show the detection limits.

I-131: approx. 1E-6Bq/cm³, Cs-134: approx. 2E-6Bq/cm³, Cs-137: approx. 2E-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.

Nuclide Analysis Results of Radioactive Materials in the Air
at the Upper Part of the Reactor Building, Fukushima Daiichi <2/4>

(Data summarized on December 5)

Place of Sampling	Upper part of reactor building of Unit 1 (southwest corner of cover)		Upper part of reactor building of Unit 1 (opening part of operation floor of reactor building)		Upper part of reactor building of Unit 1 (ceiling of spent fuel pool)				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	2011/12/2 9:17 ~ 10:17	2011/12/2 6:14 ~ 7:14	2011/12/2 5:12 ~ 6:12					
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 (/)	density of sample (Bq/cm ³)	Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	ND	-			1E-03
Cs-134 (about 2 years)	1.5E-05	0.01	2.1E-05	0.01	3.0E-05	0.02			2E-03
Cs-137 (about 30 years)	1.7E-05	0.01	3.0E-05	0.01	3.8E-05	0.01			3E-03

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

* When the radioactivity density is below the detection limit, it shows "ND" which means "Not Detectable".

The followings show the detection limits.

I-131: 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.

Nuclide Analysis Results of Radioactive Materials in the Air
at the Upper Part of the Reactor Building, Fukushima Daiichi < 3/4 >

Reference

(Data summarized on December 5)

Place of Sampling	Upper part of reactor building of Unit 1 (truck bay door 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	2011/12/2 13:00 ~ 14:00					
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	-					1E-03
Cs-134 (about 2 years)	ND	-					2E-03
Cs-137 (about 30 years)	ND	-					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, Cs-137: approx. 2E-5Bq/cm³

Particulate: I-131: approx. 3E-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, Fukushima Daiichi < 4/4 >

Reference

(Data summarized on December 5)

Place of Sampling	Upper part of reactor building of Unit 2 (west side of center blow-out panel)	Upper part of reactor building of Unit 2 (north side of center blow-out panel)	Upper part of reactor building of Unit 2 (lower part of blow-out panel)	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	2011/12/2 12:00 ~ 14:00	2011/12/2 12:00 ~ 14:00	2011/12/2 12:00 ~ 14:00				
Detected Nuclides (Half-life)	density of sample (Bq/cm ³)	Scaling Factor (/)	density of sample (Bq/cm ³)				
I-131 (about 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (about 2 years)	5.9E-05	0.03	4.7E-05	0.02	3.0E-05	0.02	2E-03
Cs-137 (about 30 years)	6.6E-05	0.02	5.8E-05	0.02	3.4E-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. 3E-6Bq/cm³

Particulate: I-131: approx. 2E-6Bq/cm³

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