

Reference

Nuclide Analysis Results of Radioactive Materials in the Air at the Opening for the Building, Fukushima Daiichi (1/5)

(Data summarized on February 28)

Place of Sampling	The opening of Process Main Building (East side of the opening)		The opening of Incineration Workshop Building (Southeast side of opening)		The opening of On-site Bunker Building (Large equipment hatch of On-site Bunker Building)		Density limit by the announcement of Reactor Regulation (Bq/cm3) (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)	
	Time of Sampling	density of sample (Bq/cm3)	Scaling Factor (/)	density of sample (Bq/cm3)	Scaling Factor (/)	density of sample (Bq/cm3)		Scaling Factor (/)
I-131 (about 8 days)	2012/2/21 9:00 ~ 10:00	ND	-	2012/2/21 9:00 ~ 10:00	ND	-	2012/2/21 9:00 ~ 10:00	1E-03
Cs-134 (about 2 years)		ND	-		ND	-		2E-03
Cs-137 (about 30 years)		9.7E-06	0.00		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. 8E-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 Opening for the Building, Fukushima Daiichi (2/5)

Reference

(Data summarized on February 28)

Place of Sampling	The opening of Miscellaneous Solid Waste Volume Reduction Treatment Building (Northeast side of the opening)		The opening of Process Main Building (in the Decontamination facility room)		Storage and exhaust facility of granulated and solidified substances (Exit side of exhauster)		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	2012/2/21 15:00 ~ 16:00	2012/2/21 8:55 ~ 9:55	2012/2/21 9:05 ~ 9:15	Density of sample (Bq/cm ³)	Scaling Factor (/)	
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	-	ND	-	1E-03
Cs-134 (about 2 years)	3.9E-05	0.02	2.5E-04	0.13	ND	-	2E-03
Cs-137 (about 30 years)	4.0E-05	0.01	3.4E-04	0.11	ND	-	3E-03

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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. 5E-6Bq/cm³, Cs-134: approx. 5E-6Bq/cm³, Cs-137: approx. 6E-6Bq/cm³

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Nuclide Analysis Results of Radioactive Materials in the Air
at the Opening for the Building, Fukushima Daiichi (3/5)

Reference

(Data summarized on February 28)

Place of Sampling	Radiation Waste Treatment Facility Building of Unit 1 (West side of the opening)		Radiation Waste Treatment Facility Building of Unit 2 (West side of the opening)		Radiation Waste Treatment Facility Building of Unit 4 (Northwest side of the opening)		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	2012/2/22 8:50 ~ 9:50		2012/2/22 8:50 ~ 9:50		2012/2/23 14:40 ~ 15:40		
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	-	ND	-	1E-03
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	2E-03
Cs-137 (about 30 years)	ND	-	ND	-	1.3E-05	0.00	3E-03

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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. 1E-5Bq/cm³, Cs-137: approx. 2E-5Bq/cm³

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

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Nuclide Analysis Results of Radioactive Materials in the Air
at the Opening for the Building, Fukushima Daiichi (4/5)

Reference

(Data summarized on February 28)

Place of Sampling	The opening of Reactor Building of Unit 4 (Large equipment hatch of Reactor Building)		The opening of Turbine Building of Unit 1 (Large equipment hatch of Turbine Building)		The opening of Turbine Building of Unit 2 (Large equipment hatch of Turbine 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	2012/2/23 14:40 ~ 15:40	2012/2/23 7:56 ~ 8:56	2012/2/23 7:56 ~ 8:56	Density of sample (Bq/cm ³)	Scaling Factor (/)	
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	-	ND	-	1E-03
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	2E-03
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	3E-03

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Data of other nuclides are under examination.

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

The followings show the detection limits. Volatile: I-131: approx. 5E-6Bq/cm³, Cs-134: approx. 1E-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

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Nuclide Analysis Results of Radioactive Materials in the Air
at the Opening for the Building, Fukushima Daiichi (5/5)

Reference

(Data summarized on February 28)

Place of Sampling	The opening of Turbine Building of Unit 3 (Large equipment hatch of Turbine Building)		The opening of Turbine Building of Unit 4 (Large equipment hatch of Turbine 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)
	density of sample (Bq/cm ³)	Scaling Factor (/)	density of sample (Bq/cm ³)	Scaling Factor (/)			
Time of Sampling	2012/2/23 15:20 ~ 16:20		2012/2/23 15:20 ~ 16:20				
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)	ND	-	ND	-			2E-03
Cs-137 (about 30 years)	ND	-	ND	-			3E-03

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The followings show the detection limits. Volatile: I-131: approx. 5E-6Bq/cm³, Cs-134: approx. 1E-5Bq/cm³, Cs-137: approx. 2E-5Bq/cm³

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

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