

Nuclide Analysis Results of Radioactive Materials in the Air at the upside of reactor building of Unit 1 in Fukushima Daiichi Nuclear Power Stations < 1/4 >

Reference

(Data summarized on October 27)

Place of Sampling	At the upside of reactor building of Unit 1 (aperture of hatch on the 4th floor)	At the upside of reactor building of Unit 1 (carring gate)					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	2011/10/25 11:31 ~ 12:31	2011/10/25 11:31 ~ 12:31					
Detected Nuclides (Half-life)	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)	ND	-	ND	-	/	/	1E-03
Cs-134 (about 2 years)	1.6E-04	0.08	3.7E-05	0.02	/	/	2E-03
Cs-137 (about 30 years)	2.0E-04	0.07	4.6E-05	0.02	/	/	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.

Detection limits are as follows:

Volatile: I-131: approx. 7E-6Bq/cm3

Particulate: I-131: approx. 5E-6Bq/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 upside of reactor building of Unit 1 in Fukushima Daiichi Nuclear Power Stations < 2/4 >

Reference

(Data summarized on October 27)

Place of Sampling	At the upside of reactor building of Unit 1 (Inlet of Cover Exhaust System filter)	At the upside of reactor building of Unit 1 (Outlet of Cover Exhaust System filter)					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	2011/10/25 7:40 ~ 8:40	2011/10/25 11:47 ~ 12:47					
Detected Nuclides (Half-life)	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)	ND	-	ND	-	/	/	1E-03
Cs-134 (about 2 years)	9.2E-05	0.05	ND	-	/	/	2E-03
Cs-137 (about 30 years)	1.2E-04	0.04	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.

Detection limits are as follows:

I-131: approx. 8E-7Bq/cm3, Cs-134: approx. 7E-7Bq/cm3, Cs-137: approx. 8E-7Bq/cm3

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

This is the result of nuclide analysis on particulate radioactive substances in the air.

Nuclide Analysis Results of Radioactive Materials in the Air at the upside of
 reactor building of Unit 1 in Fukushima Daiichi Nuclear Power Stations < 3/4 >

Reference

(Data summarized on October 27)

Place of Sampling	At the upside of reactor building of Unit 1 (Northwest corner of the cover)		At the upside of reactor building of Unit 1 (Northeast corner of the cover)		At the upside of reactor building of Unit 1 (Southwest corner of the 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)
	density of sample (Bq/cm ³)	Scaling Factor (/)	density of sample (Bq/cm ³)	Scaling Factor (/)	density of sample (Bq/cm ³)	Scaling Factor (/)	
Time of Sampling	2011/10/25 5:38 ~ 6:38		2011/10/25 4:36 ~ 5:36		2011/10/25 6:39 ~ 7:39		
Detected Nuclides (Half-life)							
I-131 (about 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (about 2 years)	5.5E-05	0.03	5.5E-05	0.03	6.5E-05	0.03	2E-03
Cs-137 (about 30 years)	7.3E-05	0.02	7.5E-05	0.03	8.5E-05	0.03	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.

Detection limit is as follows:

I-131: approx. 8E-7Bq/cm³

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

This is the result of nuclide analysis on particulate radioactive substances in the air.

Nuclide Analysis Results of Radioactive Materials in the Air at the upside of reactor building of Unit 1 in Fukushima Daiichi Nuclear Power Stations < 4/4 >

Reference

(Data summarized on October 27)

Place of Sampling	At the upside of reactor building of Unit 1 (aperture of operating floor)		At the upside 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	2011/10/25 10:44 ~ 11:44	2011/10/25 8:42 ~ 9:42				
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)	6.7E-05	0.03	8.8E-05	0.04			2E-03
Cs-137 (about 30 years)	8.6E-05	0.03	1.2E-04	0.04			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.

Detection limit is as follows:

I-131: approx. 8E-7Bq/cm³

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

This is the result of nuclide analysis on particulate radioactive substances in the air.