

Reference

Nuclide Analysis Results of Radioactive Materials in the Air
at the Upper Part of the Ractor Building of Unit 2, Fukushima Daiichi (1/2)

(Data summarized on September 18)

Place of Sampling	Upper part of reactor building of Unit 2 (central part of blow-out pannel)		Upper part of reactor building of Unit 2 (lower part of blow-out pannel)		Upper part of reactor building of Unit 2 (central part of blow-out pannel) (after closing large equipment hatch)		Upper part of reactor building of Unit 2 (lower part of blow-out pannel) (after closing large equipment hatch)		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 (/)	density of sample (Bq/cm3)		Scaling Factor (/)
I-131 (about 8 days)	2011/9/17 10:05 ~ 11:05	ND	-	2011/9/17 10:05 ~ 11:05	ND	-	2011/9/17 14:43 ~ 15:43	ND	-	1E-03
Cs-134 (about 2 years)	2011/9/17 10:05 ~ 11:05	1.9E-05	0.01	2011/9/17 10:05 ~ 11:05	1.0E-05	0.01	2011/9/17 14:43 ~ 15:43	1.2E-05	0.01	2E-03
Cs-137 (about 30 years)	2011/9/17 10:05 ~ 11:05	2.7E-05	0.01	2011/9/17 10:05 ~ 11:05	1.1E-05	0.00	2011/9/17 14:43 ~ 15:43	2.3E-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. Detection limits of 3 nuclides are as follows: Volatile: I-131: approx. 8E-6Bq/cm3, Cs-134: approx. 2E-5Bq/cm3, Cs-137: approx. 2E-5Bq/cm3 Particulate: I-131: approx. 4E-6Bq/cm3

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

Reference

Nuclide Analysis Results of Radioactive Materials in the Air at the Upper Part of the Ractor Building of Unit 2, Fukushima Daiichi (2/2)

(Data summarized on September 18)

Place of Sampling*	Upper part of reactor building of Unit 2 (northern central part of blow-out panel)		Upper part of reactor building of Unit 2 (northern central part of blow-out panel) (after closing large equipment hatch)		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	2011/9/17 10:05 ~ 11:05		2011/9/17 14:43 ~ 15:43		
Detected Nuclides (Half-life)	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)	2.1E-05	0.01	4.0E-05	0.02	2E-03
Cs-137 (about 30 years)	2.9E-05	0.01	4.9E-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 of 3 nuclides are as follows: Volatile: I-131: approx. 8E-6Bq/cm3, Cs-134: approx. 2E-5Bq/cm3, Cs-137: approx. 2E-5Bq/cm3 Particulate: I-131: approx. 4E-6Bq/cm3

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

* As we direct the suction part of the sampler not only in the vertical direction against the blow-out panel opening but also in the horizontal direction (northern) in order to take the influence of wind into consideration when we take samples at the central part, we added another sampler and took samples at the same time.