

Reference

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

(Data summarized on August 30)

Place of Sampling	Upper part of reactor buildin of Unit 1 (northwest side in upper part of reactor)		Upper part of reactor buildin of Unit 1 (northeast side in upper part of reactor)		Upper part of reactor buildin of Unit 1 (southwest side in upper part of reactor)		Upper part of reactor buildin of Unit 1 (southeast side in upper part of reactor)		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)*2	
	Date and time of sampling	Radioactivity density ^{1 3} (Bq/cm ³)	Scaling factor (/)	Radioactivity density ^{1 3} (Bq/cm ³)	Scaling factor (/)	Radioactivity density ^{1 3} (Bq/cm ³)	Scaling factor (/)	Radioactivity density ^{1 3} (Bq/cm ³)		Scaling factor (/)
I-131 (about 8 days)	2011/8/28 9:40 ~ 10:10	ND	-	2011/8/28 10:15 ~ 10:45	ND	-	2011/8/28 12:05 ~ 12:35	ND	-	1E-03
Cs-134 (about 2 years)	7.0E-06	0.00	5.7E-06	0.00	7.4E-06	0.00	5.6E-06	0.00	2E-03	
Cs-137 (about 30 years)	7.4E-06	0.00	5.3E-06	0.00	1.1E-05	0.00	5.3E-06	0.00	3E-03	

*1 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

*2 In the case of more than 2 nuclides, summation of scaling factor for each statutory density is compared to 1.

3 In this analysis, "ND" means that the results fall bellow detection limits.

Detection limits of 3 nuclides are as follows;

Volatile: I-131: approx. 2E-6Bq/cm³, Cs-134: approx. 5E-6Bq/cm³, and Cs-137: approx. 6E-6Bq/cm³)

Particulate: 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.

Reference

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

(Data summarized on August 30)

Place of Sampling	Upper part of reactor buildin of Unit 1 (West lower side of machine hatch)		Upper part of reactor buildin of Unit 1 (West upper sid of machine 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)*2
Date and time of sampling	2011/8/28 8:10 ~ 8:40		2011/8/28 8:45 ~ 9:15		
Detected Nuclides (Half-life)	Radioactivity density ^{1 3} (Bq/cm ³)	Scaling factor (/)	Radioactivity density ^{1 3} (Bq/cm ³)	Scaling factor (/)	
I-131 (about 8 days)	ND	-	ND	-	1E-03
Cs-134 (about 2 years)	3.8E-05	0.02	2.6E-04	0.13	2E-03
Cs-137 (about 30 years)	4.6E-05	0.02	3.3E-04	0.11	3E-03

*1 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

*2 In the case of more than 2 nuclides, summation of scaling factor for each statutory density is compared to 1.

3 In this analysis, "ND" means that the results fall bellow detection limits.

Detection limits of 3 nuclides are as follows;

Volatile: I-131: approx. 2E-6Bq/cm3, Cs-134: approx. 5E-6Bq/cm3, and Cs-137: approx. 6E-6Bq/cm3)

Particulate: I-131: approx. 3E-6Bq/cm3

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