

Nuclide Analysis Results of Radioactive Materials in the Air
at the Sites of Fukushima Nuclear Power Stations <1/2>

Reference

(Data Summarized on August 20)

Place of sampling	West Gate of Fukushima Daiichi		MP-1 of Fukushima Daini (Reference)				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	7:00 am to 12 noon August 19, 2011		9:15 am to 9:24 am August 19, 2011				
Detected nuclide (half-life)	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 (approx. 8 days)	ND	-	ND	-	/	/	1E-03
Cs-134 (approx. 2 years)	ND	-	ND	-	/	/	2E-03
Cs-137 (approx. 30 years)	ND	-	ND	-	/	/	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.

. E - means . x 10⁻

Data of other nuclides are under examination.

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 on the West Gate of Fukushima Daiichi are as follows;

(Volatile: I-131: approx. 1E-7Bq/cm³, Cs-134: approx. 3E-7Bq/cm³, and Cs-137: approx. 4E-7Bq/cm³)

(Particulate: I-131: approx. 8E-8Bq/cm³, Cs-134: approx. 2E-7Bq/cm³, and Cs-137: approx. 2E-7Bq/cm³)

Detection limits of 3 nuclides on MP-1 of Fukushima Daini are as follows;

(Volatile: I-131: approx.2E-6Bq/cm³, Cs-134: approx. 4E-6Bq/cm³, and Cs-137: approx. 3E-6Bq/cm³)

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

Nuclide Analysis Results of Radioactive Materials in the Air
at the Sites of Fukushima Nuclear Power Stations <2/2>

Reference

(Data Summarized on August 20)

Place of sampling	Unit 1 North Side Slope Fukushima Daiichi		Unit 1&2 West Side Slope Fukushima Daiichi		Unit 3&4 West Side Slope Fukushima Daiichi		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	10:14 am to 3:14 pm August 19, 2011		-		-		
Detected nuclide (half-life)	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 (approx. 8 days)	ND	-	/	/	/	/	1E-03
Cs-134 (approx. 2 years)	ND	-	/	/	/	/	2E-03
Cs-137 (approx. 30 years)	ND	-	/	/	/	/	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.

. E - means . x 10⁻

Data of other nuclides are under examination.

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 below 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. 5E-6Bq/cm³)

Particulate: I-131: approx. 1E-6Bq/cm³, Cs-134: approx. 3E-6Bq/cm³, and Cs-137: 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.