

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

Reference

(Data Summarized on August 18)

Place of sampling	West Gate of Fukushima Daiichi		MP-1 of Fukushima Daini (Reference)				②Density limit by the announcement of Reactor Regulation (Bq/cm <sup>3</sup> ) (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2) <sup>※2</sup>
	Date and time of sampling		Date and time of sampling				
Detected nuclide (half-life)	①Radioactivity density <sup>※1 ※3</sup> (Bq/cm <sup>3</sup> )	Scaling factor (①/②)	①Radioactivity density <sup>※1 ※3</sup> (Bq/cm <sup>3</sup> )	Scaling factor (①/②)	①Radioactivity density <sup>※1 ※3</sup> (Bq/cm <sup>3</sup> )	Scaling factor (①/②)	
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.

○.OE-○ means  $○.○ \times 10^{-○}$

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 on the West Gate of Fukushima Daiichi are as follows;

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

(Particulate: I-131: approx. 8E-8Bq/cm<sup>3</sup>, Cs-134: approx. 2E-7Bq/cm<sup>3</sup>, and Cs-137: approx. 2E-7Bq/cm<sup>3</sup>)

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

(Volatile: I-131: approx. 2E-6Bq/cm<sup>3</sup>, Cs-134: approx. 3E-6Bq/cm<sup>3</sup>, and Cs-137: approx. 3E-6Bq/cm<sup>3</sup>)

(Particulate: I-131: approx. 1E-6Bq/cm<sup>3</sup>, Cs-134: approx. 2E-6Bq/cm<sup>3</sup>, and Cs-137: approx. 2E-6Bq/cm<sup>3</sup>)

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

Reference

(Data Summarized on August 18)

Place of sampling	In front of the environment administration office of Fukushima Daiichi		In front of Water Treatment Building of Fukushima Daiichi		In front of the switching station of Unit 5 and 6 of Fukushima Daiichi		②Density limit by the announcement of Reactor Regulation (Bq/cm <sup>3</sup> ) (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2) <sup>※2</sup>
	Date and time of sampling		Date and time of sampling		Date and time of sampling		
Detected nuclide (half-life)	①Radioactivity density <sup>※1 ※3</sup> (Bq/cm <sup>3</sup> )	Scaling factor (①/②)	①Radioactivity density <sup>※1 ※3</sup> (Bq/cm <sup>3</sup> )	Scaling factor (①/②)	①Radioactivity density <sup>※1 ※3</sup> (Bq/cm <sup>3</sup> )	Scaling factor (①/②)	
I-131 (approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (approx. 2 years)	ND	-	7.2E-07	0.00	3.2E-06	0.00	2E-03
Cs-137 (approx. 30 years)	ND	-	6.8E-07	0.00	3.7E-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.

○.OE—○ means  $○.○ \times 10^{-○}$

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 are as follows;

Volatile: I-131: approx. 2E-7Bq/cm<sup>3</sup>, Cs-134: approx. 6E-7Bq/cm<sup>3</sup>, Cs-137: approx. 7E-7Bq/cm<sup>3</sup>。

Particulate: I-131: approx. 2E-7Bq/cm<sup>3</sup>, approx. Cs-134: approx. 4E-7Bq/cm<sup>3</sup>, Cs-137: approx. 4E-7Bq/cm<sup>3</sup>。

However, these nuclides are sometimes detected even when they are below the measurable limits, as the limits differ in detectors or specifications of samples.