

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

Reference

(Data Summarized on August 24)

Place of sampling	West Gate of Fukushima Daiichi		MP-1 of Fukushima Daini (Reference)				Density 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)	Radioactivity density <sup>1 3</sup> ( Bq/cm <sup>3</sup> )	Scaling factor ( / )	Radioactivity density <sup>1 3</sup> ( Bq/cm <sup>3</sup> )	Scaling factor ( / )	Radioactivity density <sup>1 3</sup> ( Bq/cm <sup>3</sup> )	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<sup>-</sup>

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. 9E-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. 4E-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 24)

Place of sampling	MP-1 of Fukushima Daiichi		MP-3 of Fukushima Daiichi		MP-8 of Fukushima Daiichi		Density 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	10:18-15:18 Aug 23, 2011		10:58-15:58 Aug 23, 2011		11:17-16:17 Aug 23, 2011		
Detected nuclide (half-life)	Radioactivity density <sup>1 3</sup> ( Bq/cm <sup>3</sup> )	Scaling factor ( / )	Radioactivity density <sup>1 3</sup> ( Bq/cm <sup>3</sup> )	Scaling factor ( / )	Radioactivity density <sup>1 3</sup> ( Bq/cm <sup>3</sup> )	Scaling factor ( / )	
I-131 (approx. 8 days)	ND	-	ND	-	ND	-	
Cs-134 (approx. 2 years)	ND	-	4.9E-07	0.00	ND	-	2E-03
Cs-137 (approx. 30 years)	ND	-	5.3E-07	0.00	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<sup>-</sup>

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-7Bq/cm<sup>3</sup>, Cs-134: approx. 5E-7Bq/cm<sup>3</sup>, and Cs-137: approx. 5E-7Bq/cm<sup>3</sup>)

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

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