

Nuclide Analysis Results of Radioactive Materials in the Air at Site of Power Station

Reference

(Data Summarized on August 8)

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	7:00-12:00 August 7, 2011	9:37-9:47 August 7, 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 (about 8 days)	ND	-	ND	-			1E-03
Cs-134 (about 2 years)	ND	-	ND	-			2E-03
Cs-137 (about 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 below detection limits.

Detection limits of 3 nuclides are as follows;

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

Particle I-131: approx. 9E-7Bq/cm³, Cs-134: approx. 2E-6Bq/cm³, and Cs-137: approx. 2E-6Bq/cm³

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

<Reference>

From August 6, as the result of reduction of detection limit, the detection limits on the West Gate of Fukushima Daiichi are as follows

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

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