Nuclide Analysis Results of Radioactive Materials in the Air at the Sites of Fukushima Nuclear Power Stations

Reference

(Data Summarized on August 21)

Place of sampling	West Gate of Fukushima Daiichi		MP-1 of Fukushima Daini (Reference)				②Density 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 12:00 pm August 20, 2011		9:12 am to 9:22 am August 20, 2011				
Detected nuclide (half-life)	①Radioactivity density※1 ※3 (Bq/cm^3)	Scaling factor (①/②)	①Radioactivity density※1 ※3 (Bq/cm^3)	Scaling factor (①/②)	①Radioactivity density※1 ※3 (Bq/cm^3)	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.

○.○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. 3E-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)