

Nuclide Analysis in the Air around the Open Mouth at Fukushima Daiichi

Reference

(Data summarized on May 8)

Place of Sampling	Process main building opening (inside of decontamination facility room)	Granulated solidification material storage and exhaust facility (exhaust outlet side)		Waste treatment building of Unit 3 (west side opening)		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)	
Time of Sampling	Apr 27, 2012 2:15 PM ~ 3:15 PM	Apr 27, 2012 2:28 PM ~ 2:38 PM		May 2, 2012 9:02 AM ~ 10:02 AM			
Detected Nuclides (Half-life)	density of sample (Bq/cm ³)	Scaling Factor (/)	density of sample (Bq/cm ³)	Scaling Factor (/)	density of sample (Bq/cm ³)		Scaling Factor (/)
I-131 (approx. 8 days)	ND	-	ND	-	ND		-
Cs-134 (approx. 2 years)	2.1E-04	0.11	7.4E-06	0.00	ND	-	2E-03
Cs-137 (approx. 30 years)	2.9E-04	0.10	1.4E-05	0.00	ND	-	3E-03

* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

O.OE - O means O.O x 10-O

Data of other nuclides are under examination.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* "ND" means the sampled data is below measurable limit.

The followings show the detection limits. Volatile: I-131: approx. 6E-6Bq/cm³, Cs-134: approx. 1E-5Bq/cm³, Cs-137: approx. 2E-5Bq/cm³

Particulate: I-131: approx. 5E-6Bq/cm³, Cs-134: approx. 8E-6Bq/cm³, Cs-137: approx. 9E-6Bq/cm³

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