

Nuclide Analysis Results of Radioactive Materials in the Air at the Upper Part of Reactor Building of Fukushima Daiichi NPS <1/2>

Reference

(Data summarized on December 13)

Place of Sampling	Upper part of reactor, Unit 3① (Reactor, NE side(Downward))	Upper part of reactor, Unit 3② (Reactor, NE side(Cross direction))	Upper part of reactor, Unit 3③ (Reactor, NE side(Downward))	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)			
Time of Sampling	Dec 10, 2011 9:00 am~9:30 am	Dec 10, 2011 9:00 am~9:30 am	Dec 10, 2011 10:00 am~10:30 am				
Detected Nuclides (Half-life)	①density of sample (Bq/cm ³)	Scaling Factor (①/②)	①density of sample (Bq/cm ³)				
I-131 (about 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (about 2 years)	5.0E-04	0.25	4.5E-04	0.23	5.9E-04	0.30	2E-03
Cs-137 (about 30 years)	6.6E-04	0.22	5.5E-04	0.18	7.4E-04	0.25	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. 1E-5Bq/cm³ Particulate: I-131: 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.

Nuclide Analysis Results of Radioactive Materials in the Air at the Upper Part of Reactor Building of Fukushima Daiichi NPS<2/2>

Reference

(Data summarized on December 13)

Place of Sampling	Upper part of reactor, Unit 3④ (Reactor, NE side(Cross direction))		/		/		②Density limit by the announcement of Reactor Regulation (Bq/cm3) (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)
Time of Sampling	Dec 10, 2011 10:00 am~10:30 am		/		/		
Detected Nuclides (Half-life)	①density of sample (Bq/cm3)	Scaling Factor (①/②)	①density of sample (Bq/cm3)	Scaling Factor (①/②)	①density of sample (Bq/cm3)	Scaling Factor (①/②)	
I-131 (about 8 days)	ND	-	/		/		1E-03
Cs-134 (about 2 years)	8.8E-04	0.44	/		/		2E-03
Cs-137 (about 30 years)	1.1E-03	0.37	/		/		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

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The followings show the detection limits. Volatile: I-131: approx. 1E-5Bq/cm3 Particulate: I-131: approx. 1E-5Bq/cm3
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.