Nuclide Analysis Results of Radioactive Materials in the Air at the Sites of Fukushima Nuclear Power Stations < 1/3 >

Reference

(Data summarized on November 11)

Place of Sampling	West Gate of Fukushima Daiichi NPS		MP-1 of Fukushima Daini (Reference)				②Density limit by the announcement of Reactor
Time of Sampling	November 10, 2011 7:00 am ~ 12:00 pm		November 10, 2011 9:37 am ~ 9:47 am				Regulation (Bq/cm3) (Density limit in the air to which radiation workers
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)	breathe in the section 4 of the appendix 2)
l-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

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

0.0E-0 means 0.0 x 10-0

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.

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, Cs-137: approx. 3E-7Bq/cm3 Particulate: I-131: approx. 6E-8Bq/cm3, Cs-134: approx. 2E-7Bq/cm3, 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. 2E-6Bq/cm3, Cs-137: approx. 3E-6Bq/cm3 Particulate: I-131: approx. 9E-7Bq/cm3, Cs-134: approx. 2E-6Bq/cm3

Nuclide Analysis Results of Radioactive Materials in the Air at the Sites of Fukushima Nuclear Power Stations <2/3>

Reference

## (Data summarized on November 11)

Place of Sampling	Fukushima Daiichi Unit 1 North Side Slope		Fukushima Daiichi Unit 1 and Unit 2 West Side Slope		Fukushima Daiich Unit 4 West Side S		②Density limit by the announcement of Reactor
Time of Sampling	November 10, 2011 10:02 am ~ 3:02 pm		November 10, 2011 10:11 am ~ 3:11 pm		November 10, 2011 10:15 am ~ 3:15 pm		Regulation (Bq/cm3) (Density limit in the air to which radiation workers
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	breathe in the section 4 of the appendix 2)
I-131 (about 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	2E-03
Cs-137 (about 30 years)	ND	-	ND	-	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. 2E-6Bq/cm3, Cs-134: approx. 4E-6Bq/cm3, Cs-137: approx. 5E-6Bq/cm3 Particulate: I-131: approx. 1E-6Bq/cm3, Cs-134: approx. 3E-6Bq/cm3, Cs-137: approx. 3E-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 Sites of Fukushima Nuclear Power Stations <3/3>

Reference

## (Data summarized on November 11)

Place of Sampling	mountainside of Unit 1 of Fukushima Daiichi		mountainside of Unit 2 of Fukushima Daiichi		mountainside of Fukushima [		②Density limit by the announcement of Reactor
Time of Sampling	N/A		N/A		November 10, 2011 10:22 am ~ 3:22 pm		Regulation (Bq/cm3) (Density limit in the air to which radiation workers
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	breathe in the section 4 of the appendix 2)
I-131 (about 8 days)	-	-	-	-	ND	-	1E-03
Cs-134 (about 2 years)	-	-	-	-	2.2E-05	0.01	2E-03
Cs-137 (about 30 years)	-	-	-	-	2.2E-05	0.01	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.

0.0E-0 means 0.0 x 10-0

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. 2E-6Bq/cm3, Cs-134: approx. 4E-6Bq/cm3, Cs-137: approx. 5E-6Bq/cm3 Particulate: I-131: approx. 1E-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 seaside of the sites of Fukushima Nuclear Power Stations Reference

(Data summarized on November 11)

Place of Sampling	Fukushima Daiichi Upper of South Breakwater		Fukushima Daiichi Upper of Megafloat				②Density limit by the announcement of Reactor
Time of Sampling	November 9, 2011 7:00 pm ~ 12:00 am		November 9, 2011 7:00 pm ~ 12:00 am				Regulation (Bq/cm3) (Density limit in the air to which radiation workers
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	breathe in the section 4 of the appendix 2)
I-131 (about 8 days)	ND	-	ND	-			1E-03
Cs-134 (about 2 years)	2.9E-07	0.00	ND	-			2E-03
Cs-137 (about 30 years)	ND	-	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. 2E-7Bq/cm3, Cs-134: approx. 4E-7Bq/cm3, Cs-137: approx. 5E-7Bq/cm3 Particulate: I-131: approx. 1E-7Bq/cm3, Cs-134: approx. 3E-7Bq/cm3, Cs-137: approx. 3E-7Bq/cm3

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

Reference

## Nuclide Analysis Results of Radioactive Materials in the Air at the seaside in front of the site of Fukushima Daiiichi Nuclear Power Station

(Data summarized on November 11)

Place of Sampling	2km-3km offshore of Fukushima Daiichi on the sea 1st sampling		2km-3km offshore of Fukushima Daiichi on the sea 2nd sampling		2km-3km offshore of Fukushima Daiichi on the sea 3rd sampling		2km-3km offshore of Fukushima Daiichi on the sea 4th sampling		②Density limit by the announcement of Reactor Regulation (Bq/cm3) (Density limit in the air to which radiation workers breathe in
Time of Sampling	November 9, 2011 4:35 pm ~ 5:05 pm		November 9, 2011 5:07 pm ~ 5:37 pm		November 9, 2011 5:55 pm ~ 6:25 pm		November 9, 2011 6:27 pm ~ 6:57 pm		
Detected Nuclides (Half-life)	①density of sample (Bq/cm3)	Scaling Factor (①/②)							
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	1E-03
Cs-134 (about 2 years)	5.7E-07	0.00	1.0E-07	0.00	3.2E-08	0.00	1.4E-07	0.00	2E-03
Cs-137 (about 30 years)	7.4E-07	0.00	1.2E-07	0.00	ND	-	1.8E-07	0.00	3E-03

\* 0.0E-0 means 0.0 x 10-0

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.

\* When the radioactivity density is below the detection limit, it shows "ND" which means "Not Detectable". The followings show the detection limits. I-131: approx. 4E-8Bq/cm3, Cs-137: approx. 4E-8Bq/cm3

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples. This survey shows results of the nuclide analysis of particulte radioactive materials in the air.