

Reference

Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 1 Reactor Building <1/3>

(Data summarized on September 11)

Place of Sampling	Upper Part of the Unit 1 Reactor Building (entrance of cover exhaust system filter) (particulate filter)		Upper Part of the Unit 1 Reactor Building (entrance of cover exhaust system filter) (charcoal filter)		Upper Part of the Unit 1 Reactor Building (exit of cover exhaust system filter) (particulate filter)		Density Limit Specified by the Reactor Regulation (Bq/cm ³) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
	Time of Sampling	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	
	Sep 3, 2012 4:59 AM - 5:59 AM			Sep 3, 2012 11:38 AM - 11:48 AM			Sep 3, 2012 9:08 AM - 10:08 AM
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	1.0E-05	0.01	ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	2.0E-05	0.01	ND	-	ND	-	3E-03

* O.OE - O is the same as O.O x 10⁰

Data of other nuclides is under examination.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

The detection limits are as follows. Volatile: I-131: Approx. 4E-6Bq/cm³, Cs-134: Approx.9E-6Bq/cm³, Cs-137: Approx.1E-5Bq/cm³
Particulate: I-131: Approx. 8E-7Bq/cm³, Cs-134: Approx.1E-6Bq/cm³, Cs-137: Approx.2E-6Bq/cm³ As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 1 Reactor Building <2/3>

(Data summarized on September 11)

Place of Sampling	Upper Part of Unit 1 Reactor Building (The Exit of Cover Exhaust System Filter) (charcoal filter)		Upper Part of the Unit 1 Reactor Building (Northwest of cover) (particulate filter)		Upper Part of the Unit 1 Reactor Building (Northeast of cover) (particulate filter)		Density Limit Specified by the Reactor Regulation (Bq/cm ³) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Time of Sampling	Sep 3, 2012 11:21 AM - 11:31 AM		Sep 3, 2012 2:56 AM - 3:56 AM		Sep 3, 2012 8:03 AM - 9:03 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	-	1E-03
Cs-134 (Approx. 2 years)	ND	-	1.7E-05	0.01	ND	-	2E-03
Cs-137 (Approx. 30 years)	ND	-	2.7E-05	0.01	ND	-	3E-03

* O.OE - O is the same as $O.O \times 10^{-O}$

Data of other nuclides is under examination.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

The detection limits are as follows. Volatile: I-131: Approx. 4E-6Bq/cm³, Cs-134: Approx.9E-6Bq/cm³, Cs-137: Approx.1E-5Bq/cm³

Particulate: I-131: Approx. 8E-7Bq/cm³, Cs-134: Approx.1E-6Bq/cm³, Cs-137: Approx.1E-6Bq/cm³ As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 1 Reactor Building <3/3>

(Data summarized on September 11)

Place of Sampling	Upper Part of the Unit 1 Reactor Building (Southwest of cover)		Upper Part of the Unit 1 Reactor Building (Reactor Building opeartion floor opening)		Upper Part of the Unit 1 Reactor Building (ceiling of spent fuel pool)		Density Limit Specified by the Reactor Regulation (Bq/cm ³) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
	Time of Sampling	Sep 3, 2012 3:58 AM - 4:58 AM	Sep 3, 2012 7:01 AM - 8:01 AM	Sep 3, 2012 6:00 AM - 7:00 AM	Density of Sample (Bq/cm ³)	Scaling Factor (/)	
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	-	1E-03
Cs-134 (Approx. 2 years)	1.3E-05	0.01	5.7E-06	0.00	6.2E-06	0.00	2E-03
Cs-137 (Approx. 30 years)	2.3E-05	0.01	8.1E-06	0.00	1.0E-05	0.00	3E-03

* O.OE - O is the same as O.O x 10⁻⁰

Data of other nuclides is under examination.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

The detection limits are as follows. I-131: Approx. 8E-7Bq/cm³ As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected. This shows the nuclides analysis results of particulate radioactive materials in the air.