

Reference

Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 3 Reactor Building < 1/4 >

Data summarized on October 11)

Place of Sampling	Upper Part of Unit 3 Reactor Building ① (Above the Reactor (Northeast Side)(Downward direction))	Upper Part of Unit 3 Reactor Building ② (Above the Reactor (Northeast Side)(Cross direction))	Upper Part of Unit 3 Reactor Building ③ (Above the Reactor (Northeast Side)(Downward direction))	② 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	Oct 3, 2013 9:05 AM - 9:35 AM		Oct 3, 2013 9:05 AM - 9:35 AM		Oct 3, 2013 11:50 AM - 12:20 PM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	ND	-	ND	-	1.0E-05	0.01	2E-03
Cs-137 (Approx. 30 years)	ND	-	ND	-	2.4E-05	0.01	3E-03

* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

O.OE—O is the same as O.O x 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. 7E-6Bq/cm³, Cs-134: Approx. 1E-5Bq/cm³, Cs-137: Approx. 2E-5Bq/cm³

Particulate; I-131: Approx. 4E-6Bq/cm³, Cs-134: Approx. 9E-6Bq/cm³, Cs-137: Approx. 1E-5Bq/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 3 Reactor Building < 2/4 >

[Data summarized on October 11)

Place of Sampling	Upper Part of Unit 3 Reactor Building ④ (Above the Reactor (Northeast Side)(Cross direction))		Upper Part of Unit 3 Reactor Building ⑤ (Above the Reactor (West-southwest side)(Downward direction))		Upper Part of Unit 3 Reactor Building ⑥ (Above the Reactor (West-southwest side)(Cross direction))		② 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	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	
	Oct 3, 2013 9:05 AM - 9:35 AM			Oct 3, 2013 9:05 AM - 9:35 AM		Oct 3, 2013 11:50 AM - 12:20 PM	
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	ND	-	ND	-	2.9E-05	0.01	2E-03
Cs-137 (Approx. 30 years)	ND	-	ND	-	7.0E-05	0.02	3E-03

* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

O.OE—O is the same as O.O x 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. 7E-6Bq/cm³, Cs-134: Approx. 1E-5Bq/cm³, Cs-137: Approx. 2E-5Bq/cm³

Particulate; I-131: Approx. 5E-6Bq/cm³, Cs-134: Approx. 9E-6Bq/cm³, Cs-137: Approx. 1E-5Bq/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 3 Reactor Building < 3/4 >

[Data summarized on October 11)

Place of Sampling	Upper Part of Unit 3 Reactor Building ⑦ (Above the Reactor (West-southwest side)(Downward direction))		Upper Part of Unit 3 Reactor Building ⑧ (Above the Reactor (West-southwest side)(Cross direction))		Upper Part of Unit 3 Reactor Building ⑨ (Around the Machine Hatch Opening on the 3rd Floor)		② 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	Oct 3, 2013 9:05 AM - 9:35 AM		Oct 3, 2013 9:05 AM - 9:35 AM		Oct 3, 2013 11:50 AM - 12:20 PM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	4.0E-05	0.02	2.6E-05	0.01	ND	-	2E-03
Cs-137 (Approx. 30 years)	8.8E-05	0.03	5.5E-05	0.02	1.9E-05	0.01	3E-03

* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

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. $7E-6Bq/cm^3$, Cs-134: Approx. $1E-5Bq/cm^3$, Cs-137: Approx. $2E-5Bq/cm^3$

Particulate; I-131: Approx. $5E-6Bq/cm^3$, Cs-134: Approx. $8E-6Bq/cm^3$

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 3 Reactor Building < 4/4 >

[Data summarized on October 11)

Place of Sampling	Upper Part of Unit 3 Reactor Building ⑩ (Around the Machine Hatch Opening on the 3rd Floor)						② 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	Oct 3, 2013 9:05 AM - 9:35 AM					
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-					1E-03
Cs-134 (Approx. 2 years)	ND	-					2E-03
Cs-137 (Approx. 30 years)	1.3E-05	0.00					3E-03

* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

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. $7E-6Bq/cm^3$, Cs-134: Approx. $1E-5Bq/cm^3$, Cs-137: Approx. $2E-5Bq/cm^3$

Particulate; I-131: Approx. $4E-6Bq/cm^3$, Cs-134: Approx. $8E-6Bq/cm^3$

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.