

Reference

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

(Data summarized on July 20)

Place of Sampling	Upper Part of Unit 3 Reactor Building ① (North side of a space above the reactor (Downward direction))	Upper Part of Unit 3 Reactor Building ② (North side of a space above the reactor (Cross direction))	Upper Part of Unit 3 Reactor Building ③ (North side of a space above the reactor (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	Jul 20, 2013 9:00 AM - 9:30 AM	Jul 20, 2013 9:00 AM - 9:30 AM	Jul 20, 2013 9:55 AM - 10:25 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	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	9.3E-06	0.00	1.1E-05	0.01	1.4E-05	0.01	2E-03
Cs-137 (Approx. 30 years)	2.3E-05	0.01	2.3E-05	0.01	3.3E-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 $O.O \times 10^0$

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.

Volatile; I-131: Approx. $1E-5Bq/cm^3$, Cs-134: Approx. $1E-5Bq/cm^3$, Cs-137: Approx: $2E-5Bq/cm^3$

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

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 <2/2>

(Data summarized on July 20)

Place of Sampling	Upper Part of Unit 3 Reactor Building ④ (North side of a space above the reactor (Cross direction))	Upper Part of Unit 3 Reactor Building ⑤ (Above the Reactor (Northeast Side)(Downward direction))	Upper Part of Unit 3 Reactor Building ⑥ (Above the Reactor (Northeast 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	Jul 20, 2013 9:55 AM - 10:25 AM	Jul 20, 2013 10:50 AM - 11:20 AM	Jul 20, 2013 10:50 AM - 11:20 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	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	1.8E-05	0.01	ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	2.9E-05	0.01	ND	-	ND	-	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 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.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.