

Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 4 Reactor Building <1/2>

Referen

(Data summarized on December 19)

Place of Sampling	Unit 4 Reactor Building Opening ① (Exit of Filter of Exhaust Vent) (Particulate Filter)		Unit 4 Reactor Building Opening ② (Exit of Filter of Exhaust Vent) (Charcoal Filter)		Unit 4 Reactor Building Opening ③ (Near SFP) (Particulate Filter)		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	Dec 1, 2014 9:57AM-10:57AM	Dec 1, 2014 9:57AM-10:57AM	Dec 1, 2014 10:17AM-11:17AM			
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	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	ND	-	ND	-	ND	-	3E-03

* O.OE—O is the same as O.O x 10-O

Data of other nuclides is under examination.

* In the case of 2 nuclides or more, 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. 3E-7Bq/cm³, Cs-134: Approx.6E-7Bq/cm³, Cs-137: Approx.9E-7Bq/cm³
 Particulate: I-131: Approx. 2E-7Bq/cm³, Cs-134: Approx.3E-7Bq/cm³, Cs-137: Approx.5E-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.

Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 4 Reactor Building <2/2>

Reference

(Data summarized on December 19)

Place of Sampling	Unit 4 Reactor Building Opening ④ (Near SFP) (Charcoal Filter)		Unit 4 Reactor Building Opening ⑤ (Near Chenging) (Particulate Filter)		Unit 4 Reactor Building Opening ⑥ (Inlet of Filter of Exhaust Vent) (Particulate Filter)		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	Dec 1, 2014 10:17AM-11:17AM		Dec 1, 2014 7:53AM-8:53AM		Dec 1, 2014 8:55AM-9:55AM		
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	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	ND	-	ND	-	ND	-	3E-03

* O.OE—O is the same as O.O x 10^{-O}
Data of other nuclides is under examination.

* In the case of 2 nuclides or more, 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.3E-7Bq/cm³,Cs-134:Approx.6E-7Bq/cm³,Cs-137:Approx.9E-7Bq/cm³

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