

Reference

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

(Data summarized on December 20)

Place of Sampling	Unit 4 Reactor Building ① (The exit of exhaust system filter) (Particulate Filter)	Unit 4 Reactor Building ② (The exit of exhaust system filter) (Charcoal Filter)	Unit 4 Reactor Building ③ (Near SFP) (Particulate Filter)	② Density Limit Specified by the Reactor Regulation (Bq/cm <sup>3</sup> ) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)			
Time of Sampling	Dec 12, 2013 11:01 AM - 12:01 PM	Dec 12, 2013 11:01 AM - 12:01 PM	Dec 12, 2013 11:16 AM - 12:16 PM				
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	①Density of Sample (Bq/cm <sup>3</sup> )				
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<sup>-0</sup>

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. 3E-7Bq/cm<sup>3</sup>, Cs-134: Approx. 7E-7Bq/cm<sup>3</sup>, Cs-137: Approx. 1E-6Bq/cm<sup>3</sup>

Particulate; I-131: Approx. 2E-7Bq/cm<sup>3</sup>, Cs-134: Approx. 4E-7Bq/cm<sup>3</sup>, Cs-137: Approx. 5E-7Bq/cm<sup>3</sup>

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 &lt; 2/2 &gt;

(Data summarized on December 20)

Place of Sampling	Unit 4 Reactor Building ④ (Near SFP) (Charcoal Filter)		Unit 4 Reactor Building ⑤ (Near Changing) (Particulate Filter)		Unit 4 Reactor Building ⑥ (The entrance of exhaust system filter) (Particulate Filter)		② Density Limit Specified by the Reactor Regulation (Bq/cm <sup>3</sup> ) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
	Time of Sampling	Dec 12, 2013 11:16 AM - 12:16 PM	Dec 12, 2013 6:56 AM - 7:56 AM	Dec 12, 2013 7:58 AM - 8:58 AM			
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	①Density of Sample (Bq/cm <sup>3</sup> )	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  $O.O \times 10^{-O}$

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

Particulate; I-131: Approx.  $3E-7Bq/cm^3$ , Cs-134: Approx.  $6E-7Bq/cm^3$ , Cs-137: Approx.  $9E-7Bq/cm^3$

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