

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

Reference

(Data summarized on December 19)

Place of Sampling	Upper Part of Unit 1 Reactor Building ① (The Entrance of Cover Exhaust System Filter) (Particulate Filter)		Upper Part of Unit 1 Reactor Building ② (Northwest of cover) (Particulate Filter)		Upper Part of Unit 1 Reactor Building ③ (Northeast of cover) (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, 2014 4:47AM-5:47AM		Dec 12, 2014 8:52AM-9:52AM		Dec 12, 2014 7:51AM-8:51AM		
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	-	4.2E-06	0.00	3.8E-06	0.00	2E-03
Cs-137 (Approx. 30 years)	ND	-	1.3E-05	0.00	1.6E-05	0.01	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. Particulate: I-131: Approx. 6E-7Bq/cm<sup>3</sup>, Cs-134: Approx.9E-7Bq/cm<sup>3</sup>, Cs-137: Approx.1E-6Bq/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 1 Reactor Building (2nd Sampling) <2/3>

Reference

(Data summarized on December 19)

Place of Sampling	Upper Part of Unit 1 Reactor Building ④ (Southwest of cover) (Particulate Filter)		Upper Part of Unit 1 Reactor Building ⑤ (Reactor Building operation floor opening) (Particulate Filter)		Upper Part of Unit 1 Reactor Building ⑥ (ceiling of spent fuel pool) (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, 2014 3:46AM-4:46AM	Dec 12, 2014 6:49AM-7:49AM	Dec 12, 2014 5:48AM-6:48AM			
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)	3.0E-06	0.00	5.4E-06	0.00	6.8E-06	0.00	2E-03
Cs-137 (Approx. 30 years)	1.0E-05	0.00	2.1E-05	0.01	2.5E-05	0.01	3E-03

\* 0.0E-0 is the same as 0.0 x 10-0

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. Particulate: I-131: Approx. 7E-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 1 Reactor Building (2nd Sampling) <3/3>

Referenc

(Data summarized on December 19)

Place of Sampling	Upper Part of Unit 1 Reactor Building ⑦ (ceiling of spent fuel pool) (Charcoal 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, 2014 10:39AM-10:49AM						
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	-					1E-03
Cs-134 (Approx. 2 years)	ND	-					2E-03
Cs-137 (Approx. 30 years)	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. 4E-6Bq/cm<sup>3</sup>, Cs-134: Approx.6E-6Bq/cm<sup>3</sup>, Cs-137: Approx.1E-5Bq/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.

This shows the nuclides analysis results of particulate radioactive materials in the air.