

Reference

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

(Data summarized on June 11)

Place of Sampling	Upper part of reactor building of Unit 1 (entrance of cover exhaust system filter) (Particulate filter)		Upper part of reactor building of Unit 1 (entrance of cover exhaust system filter) (Charcoal filter)		Upper part of reactor building of Unit 1 (exit of cover exhaust system filter) (Particulate filter)		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	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )		Scaling Factor ( / )
	Jun 1, 2012 6:23 AM ~ 7:23 AM			Jun 1, 2012 2:19 PM ~ 2:29 PM				
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)	2.8E-05	0.01	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 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. 5E-6Bq/cm<sup>3</sup>, Cs-134: Approx.1E-5Bq/cm<sup>3</sup>, Cs-137: Approx.1E-5Bq/cm<sup>3</sup>

Particulate: I-131: Approx. 1E-6Bq/cm<sup>3</sup>, Cs-134: Approx.2E-6Bq/cm<sup>3</sup>, Cs-137: Approx.2E-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 &lt;2/3&gt;

(Data summarized on June 11)

Place of Sampling	Upper part of reactor building of Unit 1 (exit of cover exhaust system filter) (Charcoal filter)		Upper part of reactor building of Unit 1 (Northwest corner of cover)		Upper part of reactor building of Unit 1 (Northeast corner of cover)		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	Jun 1, 2012 2:24 PM ~ 2:34 PM		Jun 1, 2012 4:20 PM ~ 5:20 PM		Jun 1, 2012 9:27 AM ~ 10:27 AM		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	ND	-	8.4E-06	0.00	1.1E-05	0.01	2E-03
Cs-137 (Approx. 30 years)	ND	-	1.5E-05	0.01	1.9E-05	0.01	3E-03

\* O.OE - O is the same as O.O x 10<sup>-O</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. 5E-6Bq/cm<sup>3</sup>, Cs-134: Approx. 1E-5Bq/cm<sup>3</sup>, Cs-137: Approx. 1E-5Bq/cm<sup>3</sup>

Particulate: I-131: 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.

As for the Northwest and Northeast corners of the cover, nuclides analysis results of the particulate radioactive materials in the air are provided.

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

(Data summarized on June 11)

Place of Sampling	Upper part of reactor building of Unit 1 (Southwest corner of cover)	Upper part of reactor building of Unit 1 (Reactor Building operation floor opening)	Upper part of reactor building of Unit 1 (ceiling of spent fuel pool)	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	Jun 1, 2012 5:22 AM ~ 6:22 AM		Jun 1, 2012 8:26 AM ~ 9:26 AM					Jun 1, 2012 7:24 AM ~ 8:24 AM		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )					Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03			
Cs-134 (Approx. 2 years)	8.3E-06	0.00	4.8E-06	0.00	3.0E-05	0.02	2E-03			
Cs-137 (Approx. 30 years)	1.3E-05	0.00	7.9E-06	0.00	4.8E-05	0.02	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 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.

I-131: 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. This shows the nuclides analysis results of particulate radioactive materials in the air.