

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 September 14)

Place of Sampling	Upper Part of Unit 1 Reactor Building ① (entrance of cover exhaust system filter) (particulate filter)	Upper Part of Unit 1 Reactor Building ② (entrance of cover exhaust system filter) (charcoal filter)	Upper Part of Unit 1 Reactor Building ③ (exit of cover 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	Sep 12, 2012 5:29 AM - 6:29 AM	Sep 12, 2012 10:04 AM - 10:14 AM	Sep 12, 2012 8:34 AM - 9:34 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> )				
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	1.1E-05	0.01	ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	1.9E-05	0.01	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. 4E-6Bq/cm<sup>3</sup>, Cs-134: Approx.9E-6Bq/cm<sup>3</sup>, Cs-137: Approx.1E-5Bq/cm<sup>3</sup>  
Particulate: I-131: Approx. 8E-7Bq/cm<sup>3</sup>, Cs-134: Approx.1E-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 September 14)

Place of Sampling	Upper Part of Unit 1 Reactor Building ④ (The Exit of Cover Exhaust System Filter) (charcoal filter)		Upper Part of Unit 1 Reactor Building ⑤ (Northwest of cover) (particulate filter)		Upper Part of Unit 1 Reactor Building ⑥ (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	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> )	
	Sep 12, 2012 9:14 AM - 9:24 AM			Sep 12, 2012 3:26 AM - 4:26 AM			
Detected Nuclides (Half-life)							
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	ND	-	7.6E-06	0.00	1.2E-05	0.01	2E-03
Cs-137 (Approx. 30 years)	ND	-	1.2E-05	0.00	2.3E-05	0.01	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. 4E-6Bq/cm<sup>3</sup>, Cs-134: Approx.9E-6Bq/cm<sup>3</sup>, Cs-137: Approx.1E-5Bq/cm<sup>3</sup>

Particulate: I-131: Approx. 8E-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 &lt; 3/3 &gt;

(Data summarized on September 14)

Place of Sampling	Upper Part of Unit 1 Reactor Building ⑦ (Southwest of cover)		Upper Part of Unit 1 Reactor Building ⑧ (Reactor Building operation floor opening)		Upper Part of Unit 1 Reactor Building ⑨ (ceiling of spent fuel pool)		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	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> )	
	Sep 12, 2012 4:27 AM - 5:27 AM			Sep 12, 2012 7:31 AM - 8:31 AM			
Detected Nuclides (Half-life)							
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	5.0E-06	0.00	2.7E-06	0.00	1.4E-05	0.01	2E-03
Cs-137 (Approx. 30 years)	8.3E-06	0.00	5.7E-06	0.00	2.3E-05	0.01	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. I-131: Approx. 8E-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. This shows the nuclides analysis results of particulate radioactive materials in the air.