

Reference

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

(Data summarized on September 11)

Place of Sampling	Upper Part of Unit 3 Reactor Building (Above the Reactor (Northeast Side)(Downward direction))		Upper Part of Unit 3 Reactor Building (Above the Reactor (Northeast Side)(Cross direction))		Upper Part of Unit 3 Reactor Building (Above the Reactor (Northeast Side)(Downward direction))		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 6, 2012 9:13 AM - 9:43 AM	Sep 6, 2012 9:13 AM - 9:43 AM	Sep 6, 2012 10:08 AM - 10:38 AM	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	-	ND	-	6.7E-05	0.03	2E-03
Cs-137 (Approx. 30 years)	ND	-	ND	-	9.8E-05	0.03	3E-03

\* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

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. 9E-6Bq/cm<sup>3</sup>, Cs-134: Approx.2E-5Bq/cm<sup>3</sup>, Cs-137: Approx.2E-5Bq/cm<sup>3</sup>

Particulate: I-131: Approx. 6E-6Bq/cm<sup>3</sup>, Cs-134: Approx.1E-5Bq/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.

## Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 3 Reactor Building &lt; 2/2 &gt;

(Data summarized on September 11)

Place of Sampling	Upper Part of Unit 3 Reactor Building (Above the Reactor Building (Northeast Side)(Cross direction))		Upper Part of Unit 3 Reactor Building (Around the Machine Hatch Opening on the 3rd Floor)		Upper Part of Unit 3 Reactor Building (Around the Machine Hatch Opening on the 3rd Floor)		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> )	
I-131 (Approx. 8 days)	Sep 6, 2012 10:08 AM - 10:38 AM	ND	-	Sep 6, 2012 11:03 AM - 11:33 AM	ND	-	1E-03
Cs-134 (Approx. 2 years)		5.2E-04	0.26		1.2E-05	0.01	2E-03
Cs-137 (Approx. 30 years)		8.0E-04	0.27		ND	-	3E-03

\* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

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. 8E-6Bq/cm<sup>3</sup>, Cs-134: Approx.2E-5Bq/cm<sup>3</sup>, Cs-137: Approx.2E-5Bq/cm<sup>3</sup>  
 Particulate: I-131: Approx. 9E-6Bq/cm<sup>3</sup>, Cs-134: Approx.1E-5Bq/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.