

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 30)

Place of Sampling	Upper Part of Unit 1 Reactor Building (The entrance of cover exhaust system filter) ( Particulate Filter )	Upper Part of Unit 1 Reactor Building ( ceiling of spent fuel pool ) ( Particulate Filter )	Upper Part of Unit 1 Reactor Building ( ceiling of spent fuel pool ) ( Charcoal 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	Sep 24, 2013 2:55 AM - 3:55 AM	Sep 24, 2013 3:57 AM - 4:57 AM	Sep 24, 2013 9:37 AM - 9:47 AM				
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )				
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	ND	-	2.2E-06	0.00	ND	-	2E-03
Cs-137 (Approx. 30 years)	1.7E-06	0.00	3.5E-06	0.00	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-6Bq/cm<sup>3</sup>, Cs-134: Approx. 7E-6Bq/cm<sup>3</sup>, Cs-137: Approx. 1E-5Bq/cm<sup>3</sup>

Particulate; I-131: Approx. 6E-7Bq/cm<sup>3</sup>, Cs-134: 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 <2/3>

(Data summarized on September 30)

Place of Sampling	Upper Part of Unit 1 Reactor Building ( Reactor Building operation floor opening ) ( Particulate Filter )		Upper Part of Unit 1 Reactor Building ( Cover northeast corner ) ( Particulate Filter )		Upper Part of Unit 1 Reactor Building ( Cover northwest corner ) ( 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> )	
	Sep 24, 2013 4:58 AM - 5:58 AM			Sep 24, 2013 5:59 AM - 6:59 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)	1.2E-06	0.00	2.2E-06	0.00	2.4E-06	0.00	2E-03
Cs-137 (Approx. 30 years)	2.9E-06	0.00	4.6E-06	0.00	4.3E-06	0.00	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.

Particulate; I-131: Approx. 6E-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 <3/3>

(Data summarized on September 30)

Place of Sampling	Upper Part of Unit 1 Reactor Building (Sountwest of cover) ( 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	Sep 24, 2013 1:54 AM - 2:54 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	-					1E-03
Cs-134 (Approx. 2 years)	1.4E-06	0.00					2E-03
Cs-137 (Approx. 30 years)	2.5E-06	0.00					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.

Particulate; I-131: 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.

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