



[Definite Report] Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of the Reactor Building <1/1>

Place of Sampling	The Exhaust System of the Unit 2 Reactor Building (The entrance of cover exhaust system filter)		The Exhaust System of the Unit 2 Reactor Building (The exit of cover exhaust system filter)				② Density Limit in the Air for Workers to Engage in Radiation Related Tasks (Bq/cm <sup>3</sup> )*
	From April 4, 2013 10:43 AM To April 4, 2013 12:43 PM		From April 4, 2013 10:14 AM To April 4, 2013 12:14 PM				
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	-			1E-03
Cs-134 (Approx. 2 years)	1.4E-06	0.00	ND	-			2E-03
Cs-137 (Approx. 30 years)	2.5E-06	0.00	ND	-			3E-03
Mn-54 (Approx. 310 days)	ND	-	ND	-			2E-02
Co-60 (Approx. 5 years)	ND	-	ND	-			1E-03
Nb-95 (Approx. 35 days)	ND	-	ND	-			2E-02
Tc-99m (Approx. 6 hrs)	ND	-	ND	-			7E-01
Ru-106 (Approx. 370 days)	ND	-	ND	-			6E-04
Ag-110m (Approx. 250 days)	9.1E-07	0.00	ND	-			3E-03
Sb-125 (Approx. 3 yrs)	ND	-	ND	-			6E-03
Te-129 (Approx. 70 mins)	ND	-	ND	-			4E-01
Te-129m (Approx. 34 days)	ND	-	ND	-			4E-03
I-132 (Approx. 2 hrs)	ND	-	ND	-			7E-02
Te-132 (Approx. 78 hrs)	ND	-	ND	-			4E-03
I-133 (Approx. 21 hrs)	ND	-	ND	-			5E-03
Cs-136 (Approx. 13 days)	ND	-	ND	-			1E-02
Ba-140 (Approx. 13 days)	ND	-	ND	-			1E-02
La-140 (Approx. 40 hrs)	ND	-	ND	-			1E-02

\* 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>

\* 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 at the exhaust system of the Unit 2 Reactor Building (the entrance of cover exhaust system filter) are as follows:

Volatile: I-131: Approx. 2E-7Bq/cm<sup>3</sup>, Cs-134: Approx. 5E-7Bq/cm<sup>3</sup>, Cs-137: Approx. 6E-7Bq/cm<sup>3</sup>

Particulate: I-131: Approx. 2E-7Bq/cm<sup>3</sup>

The detection limits at the exhaust system of the Unit 2 Reactor Building (the exit of cover exhaust system filter) are as follows:

Volatile: I-131: Approx. 2E-7Bq/cm<sup>3</sup>, Cs-134: Approx. 5E-7Bq/cm<sup>3</sup>, Cs-137: Approx. 6E-7Bq/cm<sup>3</sup>

Particulate: I-131: Approx. 1E-7Bq/cm<sup>3</sup>, Cs-134: Approx. 3E-7Bq/cm<sup>3</sup>, Cs-137: Approx. 4E-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.