

Nuclides Analysis Result of the Radioactive Materials in the Air at the Ventilation facility of Unit 2 Reactor Building in Fukushima Daiichi Nuclear Power Station

Reference

(Data summarized on April 23)

Place of Sampling	Ventilation facility of Unit 2 Reactor Building (Opening of Exhaust gas filtering)		Ventilation facility of Unit 2 Reactor Building (Exit of Exhaust gas filtering)		② Density Limit Specified by the Reactor Regulation (Bq/cm ³) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Time of Sampling	April 8, 2014 12:41 AM - 2:35 PM		April 8, 2014 12:28 AM -2:28 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	2.0E-06	0.00	ND	-	2E-03
Cs-137 (Approx. 30 years)	5.3E-06	0.00	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 x 10⁰

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 at the ventilation facility of Unit 2 reactor building (opening of exhaust gas filter) are as follows.

Volatile: I-131: Approx. 2E-7Bq/cm³, Cs-134: Approx.4E-7Bq/cm³, Cs-137: Approx.6E-7Bq/cm³

Particulate: I-131: Approx. 2E-7Bq/cm³

The detection limits at the ventilation facility of Unit 2 reactor building (exit of exhaust gas filter) are as follows.

Volatile: I-131: Approx. 2E-7Bq/cm³, Cs-134: Approx.4E-7Bq/cm³, Cs-137: Approx.6E-7Bq/cm³

Particulate: I-131: Approx. 1E-7Bq/cm³, Cs-134: Approx.2E-7Bq/cm³, Cs-137: Approx.3E-7Bq/cm³