

Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS<1/4>

Reference

(Data summarized on November 21)

Place of Sampling	3rd Floor of Auxiliary Operation Shared Facility (Around the Machine Hatch)		3rd Floor of Auxiliary Operation Shared Facility (In Front of South Stairs)		3rd Floor of Auxiliary Operation Shared Facility (In Front of North Stairs)		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	Oct 5,2014 8:07 AM	Oct 6,2014 9:07 AM	Time of Sampling	Oct 5,2014 8:09 AM	Oct 6,2014 9:04 AM		Time of Sampling
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	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	-	ND	-	1E-03	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	2E-03	
Cs-137 (Approx. 30 years)	ND	-	ND	-	ND	-	3E-03	

* This is nuclide analysis result of the radioactive materials in the air of the fuel handling.

* 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-O

Data of other nuclides is under examination.

* In the case of 2 nuclides or more, 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. 2E-8Bq/cm³, Cs-134: Approx.3E-8Bq/cm³, Cs-137: Approx.3E-8Bq/cm³ Particulate: I-131: Approx. 2E-8Bq/cm³, Cs-134: Approx.4E-8Bq/cm³, Cs-137: Approx.6E-8Bq/cm³ As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

(Data summarized on November 21)

Place of Sampling	3rd Floor of Auxiliary Operation Shared Facility (Around the Machine Hatch)		3rd Floor of Auxiliary Operation Shared Facility (In Front of South Stairs)		3rd Floor of Auxiliary Operation Shared Facility (In Front of North Stairs)		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	Oct 11,2014 8:13 AM	Oct 12,2014 9:16 AM	Time of Sampling	Oct 11,2014 8:15 AM	Oct 12,2014 9:17 AM		Time of Sampling
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	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	-	ND	-	1E-03	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	2E-03	
Cs-137 (Approx. 30 years)	ND	-	ND	-	ND	-	3E-03	

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The detection limits are as follows. Volatile: I-131: Approx. 4E-8Bq/cm³, Cs-134: Approx.6E-8Bq/cm³, Cs-137: Approx.9E-8Bq/cm³ Particulate: I-131: Approx. 2E-8Bq/cm³, Cs-134: Approx.4E-8Bq/cm³, Cs-137: Approx.5E-8Bq/cm³ As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

(Data summarized on November 21)

Place of Sampling	3rd Floor of Auxiliary Operation Shared Facility (Around the Machine Hatch)		3rd Floor of Auxiliary Operation Shared Facility (In Front of South Stairs)		3rd Floor of Auxiliary Operation Shared Facility (In Front of North Stairs)		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	Oct 14,2014 8:04 AM	Oct 15,2014 9:03 AM	Oct 14,2014 8:07 AM	Oct 15,2014 9:05 AM	Oct 14,2014 8:00 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)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	ND	-	ND	-	ND	-	3E-03

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The detection limits are as follows. Volatile: I-131: Approx. 4E-8Bq/cm³, Cs-134: Approx.6E-8Bq/cm³, Cs-137: Approx.1E-7Bq/cm³ Particulate: I-131: Approx. 2E-8Bq/cm³, Cs-134: Approx.4E-8Bq/cm³, Cs-137: Approx.6E-8Bq/cm³ As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

(Data summarized on November 21)

Place of Sampling	3rd Floor of Auxiliary Operation Shared Facility (Around the Machine Hatch)		3rd Floor of Auxiliary Operation Shared Facility (In Front of South Stairs)		3rd Floor of Auxiliary Operation Shared Facility (In Front of North Stairs)		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	Oct 17,2014 8:20 AM ~ Oct 18,2014 9:06 AM	Oct 17,2014 8:21 AM ~ Oct 18,2014 9:04 AM	Oct 17,2014 8:18 AM ~ Oct 18,2014 9:01 AM	Oct 17,2014 8:18 AM ~ Oct 18,2014 9:01 AM	Oct 17,2014 8:18 AM ~ Oct 18,2014 9:01 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)	①Density of Sample (Bq/cm ³)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	ND	-	ND	-	ND	-	3E-03

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