

Nuclides Analysis Result of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS <1/9>

Reference

(Data summarized on April 23)

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 <sup>3</sup> ) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Place of Sampling	March 4, 2014 8:43 AM	~ March 5, 2014 9:19 AM	March 4, 2014 8:46 AM	~ March 5, 2014 9:22 AM	March 4, 2014 8:40 AM	~ March 5, 2014 9:15 AM	
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	-	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 the nuclides analysis result of the radioactive materials in the air during handling of fuel.

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

O.OE<sup>-0</sup> 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. 4E-8Bq/cm<sup>3</sup>, Cs-134: Approx. 7E-8Bq/cm<sup>3</sup>, Cs-137: Approx. 1E-7Bq/cm<sup>3</sup>

Particulate: I-131: Approx. 2E-8Bq/cm<sup>3</sup>, Cs-134: Approx. 4E-8Bq/cm<sup>3</sup>, Cs-137: Approx. 5E-8Bq/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.

(Data summarized on April 23)

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 <sup>3</sup> ) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Place of Sampling	March 6, 2014 8:24 AM	March 7, 2014 8:25 AM	March 6, 2014 8:25 AM	March 7, 2014 8:28 AM	March 6, 2014 8:23 AM	March 7, 2014 8:23 AM	
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	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)	5.9E-08	0.00	7.2E-08	0.00	8.6E-08	0.00	3E-03

\* This is the nuclides analysis result of the radioactive materials in the air during handling of fuel.

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

O.OE<sup>-0</sup> is the same as O.O x 10<sup>-0</sup>

Data of other nuclides is under examination.

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The detection limits are as follows.

Volatile: I-131: Approx. 4E-8Bq/cm3, Cs-134: Approx. 7E-8Bq/cm3, Cs-137: Approx. 1E-7Bq/cm3

Particulate: I-131: Approx. 3E-8Bq/cm3, Cs-134: Approx. 4E-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.

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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 <sup>3</sup> ) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Place of Sampling	March 7, 2014 8:27 AM	~ March 8, 2014 8:35 AM	March 7, 2014 8:30 AM	~ March 8, 2014 8:38 AM	March 7, 2014 8:24 AM	~ March 8, 2014 8:30 AM	
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	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	-	5.7E-08	0.00	3E-03

\* This is the nuclides analysis result of the radioactive materials in the air during handling of fuel.

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

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The detection limits are as follows.

Volatile: I-131: Approx. 4E-8Bq/cm3, Cs-134: Approx. 7E-8Bq/cm3, Cs-137: Approx. 1E-7Bq/cm3

Particulate: I-131: Approx. 3E-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 April 23)

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 <sup>3</sup> ) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)	
Place of Sampling	March 8, 2014 8:51 AM	~ March 9, 2014 9:06 AM	March 8, 2014 8:54 AM	~ March 9, 2014 9:09 AM	March 8, 2014 8:48 AM	~ March 9, 2014 9:04 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	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 the nuclides analysis result of the radioactive materials in the air during handling of fuel.

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

O.OE<sup>-0</sup> is the same as O.O x 10<sup>-0</sup>

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The detection limits are as follows.

Volatile: I-131: Approx. 4E-8Bq/cm3, Cs-134: Approx. 7E-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 April 23)

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 <sup>3</sup> ) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)	
Place of Sampling	March 10, 2014 8:12 AM	~ March 11, 2014 9:02 AM	March 10, 2014 8:15 AM	~ March 11, 2014 9:03 AM	March 10, 2014 8:10 AM	~ March 11, 2014 9:01 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	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	-	7.5E-08	0.00	ND	-	3E-03	

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O.OE<sup>-0</sup> is the same as O.O x 10<sup>-0</sup>

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The detection limits are as follows.

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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 April 23)

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 <sup>3</sup> ) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)	
Place of Sampling	March 12, 2014 8:39 AM	~ March 13, 2014 9:08 AM	March 12, 2014 8:41 AM	~ March 13, 2014 9:03 AM	March 12, 2014 8:37 AM	~ March 13, 2014 9:01 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	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.

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Particulate: I-131: Approx. 2E-8Bq/cm3, Cs-134: Approx. 4E-8Bq/cm3, Cs-137: Approx. 6E-8Bq/cm3

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Place of Sampling	March 16, 2014 8:15 AM	~ March 17, 2014 9:02 AM	March 16, 2014 8:11 AM	~ March 17, 2014 9:03 AM	March 16, 2014 8:07 AM	~ March 17, 2014 9:01 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)		
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-		1E-03
Cs-134 (Approx. 2 years)	ND	-	ND	-	4.2E-08	0.00		2E-03
Cs-137 (Approx. 30 years)	ND	-	ND	-	9.9E-08	0.00	3E-03	

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Place of Sampling	March 20, 2014 8:38 AM	~ March 21, 2014 9:13 AM	March 20, 2014 8:36 AM	~ March 21, 2014 9:10 AM	March 20, 2014 8:35 AM	~ March 21, 2014 9:09 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	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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Nuclides Analysis Result of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS <9/9>

Reference

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Place of Sampling	March 24, 2014 8:28 AM ~ March 25, 2014 9:09 AM	March 24, 2014 8:31 AM ~ March 25, 2014 9:06 AM	March 24, 2014 8:26 AM ~ March 25, 2014 9:01 AM				
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm3)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	1. 8E-08	0. 00	1. 7E-08	0. 00	2. 1E-08	0. 00	2E-03
Cs-137 (Approx. 30 years)	3. 4E-08	0. 00	3. 5E-08	0. 00	4. 2E-08	0. 00	3E-03

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