

Nuclides Analysis Result 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	Unit 4 Reactor Building Opening (Large Equipment Hatch)		Unit 1 Turbine Building Opening (Large Equipment Hatch)		Unit 2 Turbine Building Opening (Large Equipment Hatch)		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	Nov 16, 2014 9:05 AM - 10:05 AM		Nov 16, 2014 10:47 AM - 11:47 AM		Nov 16, 2014 10:47 AM - 11:47 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	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	ND -	ND	- ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	ND -	ND	- ND	-	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 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 value.

The detection limit values are as follows:

Volatile, I-131: Approx. 4E-6Bq/cm³, Cs-134: Approx. 7E-6Bq/cm³, Cs-137: Approx. 1E-5Bq/cm³

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

As the detection limit value may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit value are detected.

(Data summarized on November 21)

Place of Sampling	Unit 3 Turbine Building Opening (Large Equipment Hatch)		Unit 4 Turbine Building Opening (Large Equipment Hatch)		Unit 1 Waste Treatment Building (West Side Opening)		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	Nov 16, 2014 10:47 AM - 11:47 AM		Nov 16, 2014 10:47 AM - 11:47 AM		Nov 16, 2014 8:55 AM - 9:55 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 limit values are as follows:

Volatile, I-131: Approx. 4E-6Bq/cm³, Cs-134: Approx. 7E-6Bq/cm³, Cs-137: Approx. 1E-5Bq/cm³

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

As the detection limit value may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit value are detected.

(Data summarized on November 21)

Place of Sampling	Unit 2 Waste Treatment Building (West Side Opening)		Unit 3 Waste Treatment Building (West Side Opening)		Unit 4 Waste Treatment Building (Northwest Side Opening)		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	Nov 16, 2014 8:55 AM - 9:55 AM		Nov 16, 2014 9:05 AM - 10:05 AM		Nov 16, 2014 10:37 AM - 11:37 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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* "ND indicates that the measurement result is below the detection limit value.

The detection limit values are as follows:

Volatile, I-131: Approx. 4E-6Bq/cm³, Cs-134: Approx. 7E-6Bq/cm³, Cs-137: Approx. 1E-5Bq/cm³

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

As the detection limit value may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit value are detected.

(Data summarized on November 21)

Place of Sampling	Process Main Building (East Side Opening)		Incineration Workshop Building Opening (Southeast Side)		On-site Bunker Building Opening (Large Equipment Hatch)		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	Nov 16, 2014 9:05 AM - 10:05 AM		Nov 16, 2014 10:37 AM - 11:37 AM		Nov 16, 2014 9:05 AM - 10:05 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 limit values are as follows:

Volatile, I-131: Approx. 4E-6Bq/cm³, Cs-134: Approx. 7E-6Bq/cm³, Cs-137: Approx. 1E-5Bq/cm³

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

As the detection limit value may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit value are detected.