

Reference

### Nuclides Analysis Result of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS

(Data summarized on March 15)

Place of Sampling	Unit 3 Waste Treatment Building (West Side Opening)						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)
Time of Sampling	Mar 7, 2013 9:35 AM - 10:35 AM						
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (Approx. 8 days)	ND	-	/	/	/	/	1E-03
Cs-134 (Approx. 2 years)	ND	-	/	/	/	/	2E-03
Cs-137 (Approx. 30 years)	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 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-6Bq/cm<sup>3</sup>, Cs-134: Approx.1E-5Bq/cm<sup>3</sup>, Cs-137: Approx.1E-5Bq/cm<sup>3</sup>

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

Reference

### Nuclides Analysis Result of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS

(Data summarized on March 15)

Place of Sampling	Process Main Building Opening (Decontamination Equipment Room)		Exhaust Facility of Granular Solid Strage (Outlet)		/		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)
	Time of Sampling		Time of Sampling		/		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (Approx. 8 days)	ND	-	ND	-	/		1E-03
Cs-134 (Approx. 2 years)	3.3E-04	0.17	ND	-	/		2E-03
Cs-137 (Approx. 30 years)	6.0E-04	0.20	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 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. 5E-6Bq/cm<sup>3</sup>, Cs-134: Approx.6E-6Bq/cm<sup>3</sup>, Cs-137: Approx.8E-6Bq/cm<sup>3</sup>  
 Particulate: I-131: Approx. 6E-6Bq/cm<sup>3</sup>, Cs-134: Approx.4E-6Bq/cm<sup>3</sup>, Cs-137: Approx.5E-6Bq/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.

Reference

### Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS<1/7>

(Data summarized on March 15)

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)		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)
Time of Sampling	Feb 28, 2013 9:10 AM	Mar 1, 2013 9:11 AM	Feb 28, 2013 9:13 AM	Mar 1, 2013 9:18 AM	Feb 28, 2013 9:07 AM	Mar 1, 2013 9:03 AM	
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	1.0E-07	0.00	ND	-	8.2E-08	0.00	2E-03
Cs-137 (Approx. 30 years)	1.5E-07	0.00	1.5E-07	0.00	9.5E-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 - O is the same as O.O x 10<sup>-O</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.9E-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.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.

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### Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS<2/7>

(Data summarized on March 15)

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)		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)
Time of Sampling	Mar 1, 2013 9:16 AM	~ Mar 2, 2013 3:34 PM	Mar 1, 2013 9:23 AM	~ Mar 2, 2013 3:38 PM	Mar 1, 2013 9:09 AM	~ Mar 2, 2013 3:31 PM	
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	2.5E-07	0.00	3.2E-07	0.00	2.2E-07	0.00	2E-03
Cs-137 (Approx. 30 years)	5.1E-07	0.00	5.4E-07	0.00	4.2E-07	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 - O 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.9E-8Bq/cm<sup>3</sup> Particulate: I-131: Approx. 3E-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.

### Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS<3/7>

(Data summarized on March 15)

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)		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)
Time of Sampling	Mar 4, 2013 8:20 AM	~ Mar 5, 2013 7:52 AM	Mar 4, 2013 8:17 AM	~ Mar 5, 2013 7:56 AM	Mar 4, 2013 8:15 AM	~ Mar 5, 2013 7:47 AM	
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	9.0E-08	0.00	1.2E-07	0.00	7.1E-08	0.00	2E-03
Cs-137 (Approx. 30 years)	1.8E-07	0.00	2.6E-07	0.00	1.2E-07	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 - O is the same as O.O x 10<sup>-O</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. 5E-8Bq/cm<sup>3</sup>, Cs-134: Approx.9E-8Bq/cm<sup>3</sup>, Cs-137: Approx.1E-7Bq/cm<sup>3</sup> Particulate: I-131: Approx. 3E-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.

### Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS<4/7>

(Data summarized on March 15)

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)		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)
Time of Sampling	Mar 5, 2013 7:55 AM	~ Mar 6, 2013 8:34 AM	Mar 5, 2013 7:59 AM	~ Mar 6, 2013 8:30 AM	Mar 5, 2013 7:50 AM	~ Mar 6, 2013 8:26 AM	
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	1.7E-07	0.00	1.6E-07	0.00	2.5E-07	0.00	2E-03
Cs-137 (Approx. 30 years)	2.3E-07	0.00	3.4E-07	0.00	3.0E-07	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 - O 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.8E-8Bq/cm<sup>3</sup>, Cs-137: Approx.1E-7Bq/cm<sup>3</sup> Particulate: I-131: Approx. 3E-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.

Reference

## Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS<5/7>

(Data summarized on March 15)

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)		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)
Time of Sampling	Mar 6, 2013 8:35 AM	Mar 7, 2013 8:03 AM	Mar 6, 2013 8:32 AM	Mar 7, 2013 8:01 AM	Mar 6, 2013 8:28 AM	Mar 7, 2013 7:58 AM	
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	1.1E-07	0.00	6.9E-08	0.00	6.1E-08	0.00	2E-03
Cs-137 (Approx. 30 years)	1.5E-07	0.00	1.4E-07	0.00	1.4E-07	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 - O 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.9E-8Bq/cm<sup>3</sup>, Cs-137: Approx.1E-7Bq/cm<sup>3</sup> Particulate: I-131: Approx. 3E-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.

## Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS<6/7>

(Data summarized on March 15)

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)		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)
Time of Sampling	Mar 7, 2013 8:04 AM	~ Mar 8, 2013 8:31 AM	Mar 7, 2013 8:02 AM	~ Mar 8, 2013 8:26 AM	Mar 7, 2013 7:59 AM	~ Mar 8, 2013 8:20 AM	
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	6.5E-08	0.00	ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	1.1E-07	0.00	9.5E-08	0.00	1.2E-07	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 - O 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.8E-8Bq/cm<sup>3</sup>, Cs-137: Approx.1E-7Bq/cm<sup>3</sup> Particulate: I-131: Approx. 3E-8Bq/cm<sup>3</sup>, Cs-134: 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.

Reference

## Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS<7/7>

(Data summarized on March 15)

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)		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)
Time of Sampling	Mar 8, 2013 8:32 AM	~ Mar 9, 2013 3:42 PM	Mar 8, 2013 8:28 AM	~ Mar 9, 2013 3:40 PM	Mar 8, 2013 8:24 AM	~ Mar 9, 2013 3:36 PM	
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	8.1E-08	0.00	9.8E-08	0.00	8.5E-08	0.00	2E-03
Cs-137 (Approx. 30 years)	1.4E-07	0.00	1.8E-07	0.00	1.4E-07	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 - O 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. 3E-8Bq/cm<sup>3</sup>, Cs-134: Approx.7E-8Bq/cm<sup>3</sup>, Cs-137: Approx.9E-8Bq/cm<sup>3</sup> Particulate: I-131: Approx. 2E-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.