

Reference

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

(Data summarized on October 30 )

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)		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	Oct 20, 2013 9:05 AM - 10:05 AM		Oct 20, 2013 11:32 AM - 12:32 PM		Oct 20, 2013 11:32 AM - 12:32 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)	ND	-	ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	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 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. 8E-6Bq/cm<sup>3</sup>, Cs-137: Approx. 1E-5Bq/cm<sup>3</sup>

Particulate; I-131: Approx. 2E-6Bq/cm<sup>3</sup>, Cs-134: Approx. 5E-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.

## Nuclides Analysis Result of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS &lt;2/4&gt;

(Data summarized on October 30)

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)		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	Oct 20, 2013 11:22 AM - 12:22 PM		Oct 20, 2013 11:22 AM - 12:22 PM		Oct 20, 2013 8:55 AM - 9:55 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)	ND	-	ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	ND	-	9.3E-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  $O.O \times 10^{-O}$

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.  $4E-6$ Bq/cm<sup>3</sup>, Cs-134: Approx.  $8E-6$ Bq/cm<sup>3</sup>, Cs-137: Approx:  $1E-5$ Bq/cm<sup>3</sup>

Particulate; I-131: Approx.  $2E-6$ Bq/cm<sup>3</sup>, Cs-134: Approx.  $5E-6$ Bq/cm<sup>3</sup>, Cs-137: Approx.  $7E-6$ Bq/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 Result of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS &lt;3/4&gt;

(Data summarized on October 30 )

Place of Sampling	Unit 2 Waste Treatment Building (West Side Opening)		Unit 4 Waste Treatment Building (Northwest Side Opening)		Process Main Building (East 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	Oct 20, 2013 8:55 AM - 9:55 AM		Oct 20, 2013 9:05 AM - 10:05 AM		Oct 20, 2013 11:12 AM - 12:12 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)	ND	-	ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	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  $O.O \times 10^{-O}$

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.  $4E-6$ Bq/cm<sup>3</sup>, Cs-134: Approx.  $8E-6$ Bq/cm<sup>3</sup>, Cs-137: Approx:  $1E-5$ Bq/cm<sup>3</sup>

Particulate; I-131: Approx.  $2E-6$ Bq/cm<sup>3</sup>, Cs-134: Approx.  $5E-6$ Bq/cm<sup>3</sup>, Cs-137: Approx.  $7E-6$ Bq/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 Result of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS &lt;4/4&gt;

(Data summarized on October 30)

Place of Sampling	Incineration Workshop Building Opening (Southeast Side)		On-site Bunker Building Opening (Large Equipment Hatch)		Miscellaneous Solid Waste Volume Reduction Treatment Building Opening (Northeast Side)		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	Oct 20, 2013 9:25 AM - 10:25 AM		Oct 20, 2013 11:12 AM - 12:12 PM		Oct 20, 2013 9:25 AM - 10:25 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	-	
Cs-134 (Approx. 2 years)	ND	-	ND	-	2.5E-05	0.01	2E-03
Cs-137 (Approx. 30 years)	ND	-	ND	-	6.8E-05	0.02	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  $O.O \times 10^{-O}$

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.  $5E-6Bq/cm^3$ , Cs-134: Approx.  $8E-6Bq/cm^3$ , Cs-137: Approx.  $1E-5Bq/cm^3$

Particulate; I-131: Approx.  $3E-6Bq/cm^3$ , Cs-134: Approx.  $5E-6Bq/cm^3$ , Cs-137: Approx.  $7E-6Bq/cm^3$

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