<Reference>
April 20, 2012
Tokyo Electric Power Company

Nuclide Analysis in the Air around the Open Mouth at Fukushima Daiichi＜1/5＞ Reference

(Data summarized on April 20)

Place of Sampling	Open mouth of process main building (East open mouth)		Open mouth of Incineration Workshop Building (Southeast open mouth)		Open mouth of On-site Bunker Building (On-site Bunker Building large equipment hatch)		②Density limit by the announcement of Reactor Regulation （Bq/cm3） (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)
Time of Sampling	2012/4/14 11:40～12:40		2012/4/14 11:41～12:41		2012/4/14 11:30～12:30		
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

* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

O.OE－O means O.O x 10-O

Data of other nuclides are under examination.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* "ND" means the sampled data is below measurable limit.

The followings show the detection limits. Volatile: I-131: approx. 7E-6Bq/cm3, Cs-134: approx. 1E-5Bq/cm3, Cs-137: approx. 2E-5Bq/cm3
Particulate: I-131: approx. 4E-6Bq/cm3, Cs-134: approx. 8E-6Bq/cm3, Cs-137: approx. 9E-6Bq/cm3
Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

Nuclide Analysis in the Air around the Open Mouth at Fukushima Daiichi＜2/5＞ Reference

(Data summarized on April 20)

Place of Sampling	Open mouth of Miscellaneous Solid Waste Volume Reduction Treatment Building (Northeast open mouth)		Centralized Radiation Waste Treatment Building, Unit 1 (West open mouth)		Centralized Radiation Waste Treatment Building, Unit 2 (West open mouth)		②Density limit by the announcement of Reactor Regulation （Bq/cm3） (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)
Time of Sampling	2012/4/14 11:30～12:30		2012/4/14 9:41～10:41		2012/4/14 9:41～10:41		
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	-	1.9E-05	0.01	ND	-	2E-03
Cs-137 (approx. 30 years)	ND	-	4.6E-05	0.02	ND	-	3E-03

* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

O.OE－O means O.O x 10-O

Data of other nuclides are under examination.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* "ND" means the sampled data is below measurable limit.

The followings show the detection limits. Volatile: I-131: approx. 5E-6Bq/cm3, Cs-134: approx. 1E-5Bq/cm3, Cs-137: approx. 2E-5Bq/cm3
Particulate: I-131: approx. 4E-6Bq/cm3, Cs-134: approx. 8E-6Bq/cm3, Cs-137: approx. 9E-6Bq/cm3

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

Nuclide Analysis in the Air around the Open Mouth at Fukushima Daiichi＜3/5＞ Reference

(Data summarized on April 20)

Place of Sampling	Centralized Radiation Waste Treatment Building, Unit 4 (Northwest open mouth)		Open mouth of reactor building, Unit 4 (Reactor building large equipment hatch)		Open mouth of tubine building, Unit 1 (Turbine building large equipment hatch)		②Density limit by the announcement of Reactor Regulation （Bq/cm3） (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)
Time of Sampling	2012/4/14 9:51～10:51		2012/4/14 9:51～10:51		2012/4/14 13:17～14:17		
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	-	1.4E-05	0.01	ND	-	2E-03
Cs-137 (approx. 30 years)	ND	-	ND	-	ND	-	3E-03

* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

O.OE－O means O.O x 10-O

Data of other nuclides are under examination.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* "ND" means the sampled data is below measurable limit.

The followings show the detection limits. Volatile: I-131: approx. 5E-6Bq/cm3, Cs-134: approx. 1E-5Bq/cm3, Cs-137: approx. 2E-5Bq/cm3
Particulate: I-131: approx. 4E-6Bq/cm3, Cs-134: approx. 8E-6Bq/cm3, Cs-137: approx. 9E-6Bq/cm3

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

Nuclide Analysis in the Air around the Open Mouth at Fukushima Daiichi＜4/5＞ Reference

(Data summarized on April 20)

Place of Sampling	Open mouth of tubine building, Unit 2 (Turbine building large equipment hatch)		Open mouth of tubine building, Unit 3 (Turbine building large equipment hatch)		Open mouth of tubine building, Unit 4 (Turbine building large equipment hatch)		②Density limit by the announcement of Reactor Regulation （Bq/cm3） (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)
Time of Sampling	2012/4/14 13:17～14:17		2012/4/14 13:27～14:27		2012/4/14 13:27～14:27		
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	-	1.5E-05	0.01	ND	-	2E-03
Cs-137 (approx. 30 years)	ND	-	ND	-	ND	-	3E-03

* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

O.OE－O means O.O x 10-O

Data of other nuclides are under examination.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* "ND" means the sampled data is below measurable limit.

The followings show the detection limits. Volatile: I-131: approx. 5E-6Bq/cm3, Cs-134: approx. 1E-5Bq/cm3, Cs-137: approx. 2E-5Bq/cm3

Particulate: I-131: approx. 4E-6Bq/cm3, Cs-134: approx. 8E-6Bq/cm3, Cs-137: approx. 9E-6Bq/cm3

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

Nuclide Analysis in the Air around the Open Mouth at Fukushima Daiichi＜5/5＞ Reference

(Data summarized on April 20)

Place of Sampling	Open mouth of process main building (Decontamination instruments)		Granulated Solidification Matter Storage exhaust facility (Exhaust exit side)				②Density limit by the announcement of Reactor Regulation （Bq/cm3） (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)
Time of Sampling	2012/4/18 14:10～15:10		2012/4/18 14:20～14:30				
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	-			1E-03
Cs-134 (approx. 2 years)	2.3E-04	0.12	ND	-			2E-03
Cs-137 (approx. 30 years)	3.2E-04	0.11	ND	-			3E-03

* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

O.OE－O means O.O x 10-O

Data of other nuclides are under examination.

* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

* "ND" means the sampled data is below measurable limit.

The followings show the detection limits. Volatile: I-131: approx. 6E-6Bq/cm3, Cs-134: approx. 1E-5Bq/cm3, Cs-137: approx. 2E-5Bq/cm3
Particulate: I-131: approx. 5E-6Bq/cm3, Cs-134: approx. 5E-6Bq/cm3, Cs-137: approx. 5E-6Bq/cm3

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.