<Reference>
November 27, 2013
Tokyo Electric Power Company

Reference

Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 3 Reactor Building <1/4>

(Data summarized on November 27)

Place of Sampling	Upper Part of Unit 3 Reactor Building ① (Above the Reactor (Northwest Side))		Upper Part of Unit 3 Reactor Building ② (Above the Reactor (North Side))		Upper Part of Unit 3 Reactor Building ③ (Above the Reactor (Northeast Side))		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 12, 2013 10:15 AM - 10:45 AM		Nov 12, 2013 11:05 AM - 11:35 AM		Nov 12, 2013 2:00 PM - 2:30 PM		
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)	3.3E-06	0.00	ND	-	2.2E-06	0.00	2E-03
Cs-137 (Approx. 30 years)	6.7E-06	0.00	ND	-	4.0E-06	0.00	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^{-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. 1E-6Bq/cm^3, Cs-134: Approx. 3E-6Bq/cm^3, Cs-137: Approx. 3E-6Bq/cm^3
Particulate; I-131: Approx. 8E-7Bq/cm^3, Cs-134: Approx. 2E-6Bq/cm^3, Cs-137: Approx. 2E-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.

Reference

Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 3 Reactor Building <2/4>

(Data summarized on November 27)

Place of Sampling	Upper Part of Unit 3 Reactor Building ④ (Above the Reactor (West Side))		Upper Part of Unit 3 Reactor Building ⑤ (Above the Reactor (Central Side))		Upper Part of Unit 3 Reactor Building ⑥ (Above the Reactor (Southwest Side))		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 13, 2013 10:15 AM - 10:45 AM		Nov 13, 2013 11:05 AM - 11:35 AM		Nov 13, 2013 12:30 PM - 1:00 PM		
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)	7.7E-05	0.04	5.9E-05	0.03	6.4E-04	0.32	2E-03
Cs-137 (Approx. 30 years)	1.7E-04	0.06	1.4E-04	0.05	1.4E-03	0.47	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^{-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. 1E-6Bq/cm^3, Cs-134: Approx. 2E-6Bq/cm^3, Cs-137: Approx. 3E-6Bq/cm^3

  Particulate; I-131: Approx. 5E-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.

Reference

Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 3 Reactor Building <3/4>

(Data summarized on November 27)

Place of Sampling	Upper Part of Unit 3 Reactor Building ⑦ (Above the Reactor (South Side))		Upper Part of Unit 3 Reactor Building ⑧ (Above the Reactor (East Side))		Upper Part of Unit 3 Reactor Building ⑨ (Around the Machine Hatch 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 13, 2013 1:20 PM - 1:50 PM		Nov 13, 2013 2:25 PM - 2:55 PM		Nov 12, 2013 12:15 PM - 12:45 PM		
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)	9.3E-05	0.05	ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	2.1E-04	0.07	3.3E-06	0.00	2.3E-06	0.00	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^{-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. 1E-6Bq/cm^3, Cs-134: Approx. 2E-6Bq/cm^3, Cs-137: Approx. 4E-6Bq/cm^3

  Particulate; I-131: Approx. 2E-6Bq/cm^3, Cs-134: Approx. 2E-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.

Reference

Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 3 Reactor Building <4/4>

(Data summarized on November 27)

Place of Sampling	Upper Part of Unit 3 Reactor Building ⑩ (Around the Machine Hatch 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 12, 2013 12:50 PM - 1:20 PM						
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	-					1E-03
Cs-134 (Approx. 2 years)	3.6E-06	0.00					2E-03
Cs-137 (Approx. 30 years)	6.3E-06	0.00					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^{-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. 1E-6Bq/cm^3, Cs-134: Approx. 2E-6Bq/cm^3, Cs-137: Approx. 3E-6Bq/cm^3

  Particulate; I-131: Approx. 7E-7Bq/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.