<Reference>
August 23, 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 <1/3>

(Data summarized on August 23)

Place of Sampling	Upper Part of Unit 3 Reactor Building ① (Above the Reactor (Northeast Side)(Downward direction))		Upper Part of Unit 3 Reactor Building ② (Above the Reactor (Northeast Side)(Cross direction))		Upper Part of Unit 3 Reactor Building ③ (Above the Reactor (Northeast Side)(Downward direction))		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	Aug 22, 2013 9:45 AM - 10:15 AM		Aug 22, 2013 9:45 AM - 10:15 AM		Aug 22, 2013 10:40 AM - 11:10 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)	2.1E-05	0.01	ND	-	3.8E-05	0.01	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. 7E-6Bq/cm^3, Cs-134: Approx. 2E-5Bq/cm^3, Cs-137: Approx. 2E-5Bq/cm^3

Particulate; I-131: Approx. 4E-6Bq/cm^3, Cs-134: Approx. 9E-6Bq/cm^3, Cs-137: Approx. 1E-5Bq/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 <2/3>

(Data summarized on August 23)

Place of Sampling	Upper Part of Unit 3 Reactor Building ④ (Above the Reactor (Northeast Side)(Cross direction))		Upper Part of Unit 3 Reactor Building ⑤ (Above the Reactor (Southwest Side)(Downward direction))		Upper Part of Unit 3 Reactor Building ⑥ (Above the Reactor (Southwest Side)(Cross direction))		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	Aug 22, 2013 10:40 AM - 11:10 AM		Aug 22, 2013 11:35 AM - 12:05 PM		Aug 22, 2013 11:35 AM - 12:05 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)	ND	-	1.2E-03	0.60	3.2E-05	0.02	2E-03
Cs-137 (Approx. 30 years)	ND	-	2.6E-03	0.87	1.0E-04	0.03	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. 7E-6Bq/cm^3, Cs-134: Approx. 1E-5Bq/cm^3, Cs-137: Approx. 2E-5Bq/cm^3

Particulate; I-131: Approx. 1E-5Bq/cm^3, Cs-134: Approx. 8E-6Bq/cm^3, Cs-137: Approx. 1E-5Bq/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 <3/3>

(Data summarized on August 23)

Place of Sampling	Upper Part of Unit 3 Reactor Building ⑦ (Above the Reactor (West-southwest Side)(Downward direction))		Upper Part of Unit 3 Reactor Building ⑧ (Above the Reactor (West-southwest Side)(Cross direction))				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	Aug 22, 2013 12:30 PM - 1:00 PM		Aug 22, 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	-			1E-03
Cs-134 (Approx. 2 years)	1.7E-04	0.09	8.7E-06	0.00			2E-03
Cs-137 (Approx. 30 years)	3.6E-04	0.12	1.8E-05	0.01			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. 7E-6Bq/cm^3, Cs-134: Approx. 1E-5Bq/cm^3, Cs-137: Approx. 2E-5Bq/cm^3

Particulate; I-131: Approx. 6E-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.