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April 23, 2014
Tokyo Electric Power Company

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

Reference

(Data summarized on April 23)

Place of Sampling	Upper Part of Unit 1 Reactor Building ① (The Entrance of Cover Exhaust System Filter) （Particulate Filter）		Upper Part of Unit 1 Reactor Building ② (Northwest of cover) （Particulate Filter）		Upper Part of Unit 1 Reactor Building ③ (Northeast of cover) （Particulate Filter）		② Density Limit Specified by the Reactor Regulation (Bq/cm3) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Time of Sampling	April 1, 2014 3:27 AM - 4:27 AM		April 1, 2014 7:31 AM - 8:31AM		April 1, 2014 6:30 AM - 7:30AM		
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	-	6.2E-06	0.00	2E-03
Cs-137 (Approx. 30 years)	ND	-	ND	-	2.0E-05	0.01	3E-03

* 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.
Particulate: I-131: Approx. 7E-7Bq/cm3, Cs-134: Approx.9E-7Bq/cm3, Cs-137: Approx.1E-6Bq/cm3
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 Upper Part of Unit 1 Reactor Building＜2/3＞

Reference

(Data summarized on April 23)

Place of Sampling	Upper Part of Unit 1 Reactor Building ④ (Southwest of cover) （Particulate Filter）		Upper Part of Unit 1 Reactor Building⑤ （Reactor Building oepration floor opening ） （Particulate Filter）		Upper Part of Unit1 Reactor Building⑥ （ceiling of spent fuel pool） （Particulate Filter）		② Density Limit Specified by the Reactor Regulation (Bq/cm3) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Time of Sampling	April 1, 2014 8:33 AM - 9:33 AM		April 1, 2014 5:29 AM - 6:29AM		April 1, 2014 4:28 AM -5:28 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)	3.7E-06	0.00	2.7E-06	0.00	7.9E-06	0.00	2E-03
Cs-137 (Approx. 30 years)	1.1E-05	0.00	6.4E-06	0.00	2.3E-05	0.01	3E-03

* 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.
Particulate: I-131: Approx. 8E-7Bq/cm3
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 Upper Part of Unit 1 Reactor Building＜3/3＞

Reference

(Data summarized on April 23)

Place of Sampling	Upper Part of Unit 1 Reactor Building⑦ (ceiling of spent fuel pool) (Charcoal Filter)						② Density Limit Specified by the Reactor Regulation (Bq/cm3) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Time of Sampling	April 1, 2014 10:39 AM - 10:49 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	-					1E-03
Cs-134 (Approx. 2 years)	ND	-					2E-03
Cs-137 (Approx. 30 years)	ND	-					3E-03

* 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. 6E-6Bq/cm3, Cs-134: Approx.7E-6Bq/cm3, Cs-137: Approx.1E-5Bq/cm3
As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.
This shows the nuclides analysis results of particulate radioactive materials in the air.