Definite Results of Nuclides Analysis at Fukushima Daiichi Nuclear Power Station (Announced on July 16 - 31, 2012)

< Legend > －: γ nuclides except for the major 3 nuclides (I-131, Cs-134, Cs-137) were not detected. ⇒ Please refer to the preliminary reports for the result of the major nuclides.
○: γ nuclides other than the major 3 nuclides (I-131, Cs-134, Cs-137) were detected. ⇒ Please refer to the following pages.
／: Not applicable or cancelled due to the bad weather.

Announcement Date of the Preliminary Report / Sampling Point	July															
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Nuclides Analysis Result of the Radioactive Materials in the Air at Fukushima Nuclear Power Stations	－	－	－	－	－	－	－	－	－	－	－	－	－	－	－	－
Nuclides Analysis Result of the Radioactive Materials in the Air at the Sea Side of Fukushima Nuclear Power Stations	／	／	／	－	／	／	／	／	／	／	－	／	／	／	／	／
Nuclides Analysis Result of Radioactive Materials in the Seawater < Coast >	－	－	－	－	－	－	－	－	－	－	－	－	－	－	－	－
Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Ibaraki Prefecture >	／	／	／	／	／	／	／	／	／	－	／	／	／	／	／	／
Nuclides Analysis Result of the Radioactive Materials in the Seawater of the Port	－	－	－	－	－	－	－	－	－	－	－	－	－	－	－	－
Nuclides Analysis Result of the Sub-drain of Fukushima Daiichi NPS	－	／	－	／	－	／	／	－	／	－	／	－	／	／	－	／
Nuclides Analysis Result of the Marine Soil	／	／	／	／	／	／	／	－	／	／	／	／	／	／	／	／
Nuclides Analysis Result of the Sub-drain Water in the Surroundings of the Central Radioactive Waste Treatment Facility	－	－	－	－	－	－	－	－	－	－	－	－	－	－	－	－
Nuclide Analysis of the Radioactive Materials in the Fallouts obtained inside and outside of Fukushima Daiichi Nuclear Power Station	／	／	／	－	／	／	／	／	－	／	／	／	／	／	／	／
Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS	／	／	／	／	／	／	／	／	－	／	／	／	／	／	／	／
Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 3 Reactor Building	／	／	／	－	－	／	／	／	／	○	／	／	／	／	／	／

[Definite Report] Nuclides Analysis Result of the Radioactive Materials in the Air at the Upper Part of Unit 3 Reactor Building <1/2>

Place of Sampling	Upper Part of Unit 3 Reactor Building ① (North side of the shield plug (Downward direction))		Upper Part of Unit 3 Reactor Building ② (North side of the shield plug (Cross direction))		Upper Part of Unit 3 Reactor Building ③ (Central part of the shield plug (Downward direction))		② Density Limit in the Air for Workers to Engage in Radiation Related Tasks (Bq/cm^3)*
Time of Sampling	Jul 25, 2013 9:00 AM - 9:30 AM		Jul 25, 2013 9:00 AM - 9:30 AM		Jul 25, 2013 10:00 AM - 10:30 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)	1.0E-05	0.01	5.6E-05	0.03	ND	-	2E-03
Cs-137 (Approx. 30 years)	4.8E-05	0.02	1.0E-04	0.03	1.1E-05	0.00	3E-03
Mn-54 (Approx. 310 days)	ND	-	ND	-	ND	-	2E-02
Co-60 (Approx. 5 years)	ND	-	ND	-	ND	-	1E-03
Nb-95 (Approx. 35 days)	ND	-	ND	-	ND	-	2E-02
Tc-99m (Approx. 6 hrs)	ND	-	ND	-	ND	-	7E-01
Ru-106 (Approx. 370 days)	ND	-	ND	-	ND	-	6E-04
Ag-110m (Approx. 250 days)	ND	-	ND	-	ND	-	3E-03
Sb-125 (Approx. 3 yrs)	2.1E-05	0.00	ND	-	ND	-	6E-03
Te-129 (Approx. 70 mins)	ND	-	ND	-	ND	-	4E-01
Te-129m (Approx. 34 days)	ND	-	ND	-	ND	-	4E-03
I-132 (Approx. 2 hrs)	ND	-	ND	-	ND	-	7E-02
Te-132 (Approx. 78 hrs)	ND	-	ND	-	ND	-	4E-03
I-133 (Approx. 21 hrs)	ND	-	ND	-	ND	-	5E-03
Cs-136 (Approx. 13 days)	ND	-	ND	-	ND	-	1E-02
Ba-140 (Approx. 13 days)	ND	-	ND	-	ND	-	1E-02
La-140 (Approx. 40 hrs)	ND	-	ND	-	ND	-	1E-02

* 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}
* 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. 4E-6Bq/cm^3, Cs-134: Approx. 9E-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.

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

Place of Sampling	Upper Part of Unit 3 Reactor Building ④ (Central part of the shield plug (Cross direction))		Upper Part of Unit 3 Reactor Building ⑤ (West side of the equipment storage pool (Downward direction))		Upper Part of Unit 3 Reactor Building ⑥ (West side of the equipment storage pool (Cross direction))		② Density Limit in the Air for Workers to Engage in Radiation Related Tasks (Bq/cm^3)*
Time of Sampling	Jul 25, 2013 10:00 AM - 10:30 AM		Jul 25, 2013 11:00 AM - 11:30 AM		Jul 25, 2013 11:00 AM - 11:30 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)	2.2E-05	0.01	1.4E-05	0.00	ND	-	3E-03
Mn-54 (Approx. 310 days)	ND	-	ND	-	ND	-	2E-02
Co-60 (Approx. 5 years)	ND	-	ND	-	ND	-	1E-03
Nb-95 (Approx. 35 days)	ND	-	ND	-	ND	-	2E-02
Tc-99m (Approx. 6 hrs)	ND	-	ND	-	ND	-	7E-01
Ru-106 (Approx. 370 days)	ND	-	ND	-	ND	-	6E-04
Ag-110m (Approx. 250 days)	ND	-	ND	-	ND	-	3E-03
Sb-125 (Approx. 3 yrs)	ND	-	ND	-	ND	-	6E-03
Te-129 (Approx. 70 mins)	ND	-	ND	-	ND	-	4E-01
Te-129m (Approx. 34 days)	ND	-	ND	-	ND	-	4E-03
I-132 (Approx. 2 hrs)	ND	-	ND	-	ND	-	7E-02
Te-132 (Approx. 78 hrs)	ND	-	ND	-	ND	-	4E-03
I-133 (Approx. 21 hrs)	ND	-	ND	-	ND	-	5E-03
Cs-136 (Approx. 13 days)	ND	-	ND	-	ND	-	1E-02
Ba-140 (Approx. 13 days)	ND	-	ND	-	ND	-	1E-02
La-140 (Approx. 40 hrs)	ND	-	ND	-	ND	-	1E-02

* 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}
* 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. 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.