

Definite Results of Nuclides Analysis at Fukushima Daiichi Nuclear Power Station (Announced on August 1 - 15, 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	August															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
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 Marine Soil	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Nuclides Analysis Result of the Sub-drain Water in the Surroundings of the Central Radioactive Waste Treatment Facility	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station, Remeasurement >	-	/	/	/	/	/	/	/	/	-	/	/	/	/	-	
Nuclides Analysis Result of the Radioactive Materials in the Seawater in Front of Unit 5-6 Intake	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Nuclide Analysis Results of Radioactive Materials in the Air above the Reactor Building at Fukushima Daiichi Power Station (Upper Part of Unit 1 Reactor Building)	/	/	/	/	/	/	/	/	/	-	/	/	/	/	/	
Nuclide Analysis Results of Radioactive Materials in the Air above the Reactor Building at Fukushima Daiichi Power Station (Upper Part of Unit 2 Reactor Building)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Nuclide Analysis Results of Radioactive Materials in the Air above the Reactor Building at Fukushima Daiichi Power Station (Upper Part of Unit 3 Reactor Building)	/	/	/	/	/	/	/	/	/	-	/	/	/	/	/	
Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS	/	/	/	/	/	/	/	/	/	-	/	/	/	/	/	

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

Place of Sampling	Upper Part of Unit 2 Reactor Building (The Center of the Blow-out Panel, West Side)		Upper Part of Unit 2 Reactor Building (The Center of the Blow-out Panel, West Side)		Upper Part of Unit 2 Reactor Building (The Center of the Blow-out Panel, West Side)		Density Limit in the Air for Workers to Engage in Radiation Related Tasks (Bq/cm ³)*
Time of Sampling	Aug 7, 2012 9:10 AM - 11:10 AM		Aug 7, 2012 9:10 AM - 11:10 AM		Aug 7, 2012 11:25 AM - 1:25 PM		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (Approx. 2 years)	ND	-	4.1E-06	0.00	4.6E-06	0.00	2E-03
Cs-137 (Approx. 30 years)	ND	-	6.4E-06	0.00	6.3E-06	0.00	3E-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	-	1.8E-06	0.00	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 $O.O \times 10^{-O}$

* 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. 3E-6Bq/cm³, Cs-134: Approx. 6E-6Bq/cm³, Cs-137: Approx. 7E-6Bq/cm³

Particulate: I-131: Approx. 2E-6Bq/cm³, Cs-134: Approx. 3E-6Bq/cm³, Cs-137: Approx. 4E-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.

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

Place of Sampling	Upper Part of Unit 2 Reactor Building (The Center of the Blow-out Panel, West Side)						Density Limit in the Air for Workers to Engage in Radiation Related Tasks (Bq/cm ³)*
	Time of Sampling	Aug 7, 2012 11:25 AM - 1:25 PM					
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	
I-131 (Approx. 8 days)	ND	-					1E-03
Cs-134 (Approx. 2 years)	ND	-					2E-03
Cs-137 (Approx. 30 years)	5.0E-06	0.00					3E-03
Nb-95 (Approx. 35 days)	ND	-					2E-02
Tc-99m (Approx. 6 hrs)	ND	-					7E-01
Ru-106 (Approx. 370 days)	ND	-					6E-04
Ag-110m (Approx. 250 days)	ND	-					3E-03
Sb-125 (Approx. 3 yrs)	ND	-					6E-03
Te-129 (Approx. 70 mins)	ND	-					4E-01
Te-129m (Approx. 34 days)	ND	-					4E-03
I-132 (Approx. 2 hrs)	ND	-					7E-02
Te-132 (Approx. 78 hrs)	ND	-					4E-03
I-133 (Approx. 21 hrs)	ND	-					5E-03
Cs-136 (Approx. 13 days)	ND	-					1E-02
Ba-140 (Approx. 13 days)	ND	-					1E-02
La-140 (Approx. 40 hrs)	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 10⁻⁰

* 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. 2E-6Bq/cm³, Cs-134: Approx. 6E-6Bq/cm³, Cs-137: Approx. 7E-6Bq/cm³

Particulate: I-131: Approx. 1E-6Bq/cm³, Cs-134: Approx. 3E-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.