

Definite Results of Nuclides Analysis at Fukushima Daiichi Nuclear Power Station (Announced on July 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	July														
	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 the Sub-drain Water in the Surroundings of the Central Radioactive Waste Treatment Facility	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nuclides Analysis Result of Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station, Remeasurement >	/	/	/	-	/	/	/	/	/	/	/	-	/	/	/
Nuclides Analysis Result of Marine Soil (May 2012)	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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 】 Radioactivity Density of the Seawater in the Port of Fukushima Daiichi NPS < 1/3 >

Place of Sampling	Shallow Draft Quay at 1F				Inside Unit 1-4 Water Intake Canal (North) at 1F				Unit 1 Screen at 1F (Outside the Silt Fence)		Unit 1 Screen at 1F (Inside the Silt Fence)		Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Jul 1, 2012 6:48 AM		N/A		Jul 1, 2012 6:53 AM		N/A		Jul 1, 2012 7:00 AM		Jul 1, 2012 6:58 AM		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
I-131 (Approx. 8 days)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	9.6	0.16	-	-	10	0.17	-	-	6.4	0.11	3.5	0.06	60
Cs-137 (Approx. 30 years)	14	0.16	-	-	14	0.16	-	-	8.2	0.09	6.5	0.07	90
Mn-54 (Approx. 310 days)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	1,000
Co-60 (Approx. 5 years)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	200
Tc-99m (Approx. 6 hrs)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	40,000
Te-129m (Approx. 34 days)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	300
Te-129 (Approx. 70 mins)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	10,000
Cs-136 (Approx. 13 days)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	300
Ba-140 (Approx. 13 days)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	300
La-140 (Approx. 40 hrs)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	400

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* 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 of the major three nuclides not detected are as follows:

I-131: Approx. 1Bq/L

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 】 Radioactivity Density of the Seawater in the Port of Fukushima Daiichi NPS < 2/3 >

Place of Sampling	Unit 2 Screen at 1F (Outside the Silt Fence)		Unit 2 Screen at 1F (Inside the Silt Fence)		Unit 3 Screen at 1F (Outside the Silt Fence)		Unit 3 Screen at 1F (Inside the Silt Fence)		Unit 4 Screen at 1F (Outside the Silt Fence)		Unit 4 Screen at 1F (Inside the Silt Fence)		Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
	I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Cs-134 (Approx. 2 years)	3.7	0.06	53	0.88	9.5	0.16	ND	-	ND	-	ND	-	60
Cs-137 (Approx. 30 years)	5.9	0.07	82	0.91	12	0.13	24	0.27	ND	-	35	0.39	90
Mn-54 (Approx. 310 days)	ND	-	0.8	0.00	ND	-	ND	-	ND	-	ND	-	1,000
Co-60 (Approx. 5 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	200
Tc-99m (Approx. 6 hrs)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40,000
Te-129m (Approx. 34 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	300
Te-129 (Approx. 70 mins)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	10,000
Cs-136 (Approx. 13 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	300
Ba-140 (Approx. 13 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	300
La-140 (Approx. 40 hrs)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	400

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* 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 of the major three nuclides not detected are as follows:

I-131: Approx. 9Bq/L, Cs-134: Approx.18Bq/L, Cs-137: Approx.22Bq/L

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 】 Radioactivity Density of the Seawater in the Port of Fukushima Daiichi NPS < 3/3 >

Place of Sampling	Inside Unit 1-4 Water Intake Canal (South) at 1F		Port Entrance of Fukushima Daiichi NPS		In Front of Unit 6 Water Intake Canal at 1F								Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Time of Sampling	Jul 1, 2012 7:25 AM		N/A		Jul 1, 2012 7:30 AM								
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
I-131 (Approx. 8 days)	ND	-	-	-	ND	-							40
Cs-134 (Approx. 2 years)	10	0.17	-	-	ND	-							60
Cs-137 (Approx. 30 years)	13	0.14	-	-	ND	-							90
Mn-54 (Approx. 310 days)	ND	-	-	-	ND	-							1,000
Co-60 (Approx. 5 years)	ND	-	-	-	ND	-							200
Tc-99m (Approx. 6 hrs)	ND	-	-	-	ND	-							40,000
Te-129m (Approx. 34 days)	ND	-	-	-	ND	-							300
Te-129 (Approx. 70 mins)	ND	-	-	-	ND	-							10,000
Cs-136 (Approx. 13 days)	ND	-	-	-	ND	-							300
Ba-140 (Approx. 13 days)	ND	-	-	-	ND	-							300
La-140 (Approx. 40 hrs)	ND	-	-	-	ND	-							400

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* 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 of the major three nuclides not detected are as follows:

I-131: Approx. 1Bq/L, Cs-134: Approx.3Bq/L, Cs-137: Approx.4Bq/L

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 Marine Soil

Place of Sampling (Place No.)	Around South Discharge Channel of 1F (1-4U Discharge Channel) (T-2)				
Time of Sampling	May 14, 2012 9:10 AM				
Detected Nuclides (Half-life)	Radioactivity Density (Bq/kg · Dry Soil)				
I-131 (Approx. 8 days)	ND				
Cs-134 (Approx. 2 years)	890				
Cs-137 (Approx. 30 years)	1,300				
Mn-54 (Approx. 310 days)	5.9				
Co-60 (Approx. 5 years)	ND				
Tc-99m (Approx. 6 hrs)	ND				
Ag-110m (Approx. 250 days)	ND				
Sb-125 (Approx. 3 yrs)	ND				
Te-129 (Approx. 70 mins)	ND				
Te-129m (Approx. 34 days)	ND				
Cs-136 (Approx. 13 days)	ND				
Ba-140 (Approx. 13 days)	ND				
La-140 (Approx. 40 hrs)	ND				

* "ND" indicates that the measurement result is below the detection limit.

The detection limits of the major three nuclides not detected are as follows:

I-131: Approx. 15Bq/L, Moist Soil

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

* As for other place of sampling on "Summary of Marine Soil Monitoring Result: Fukushima Daiichi Nuclear Power Station (May 2012)" (announced on July 13, reference), nuclides except for the major 3 nuclides were not detected.