

Revised Edition

Definite Results of Nuclides Analysis at Fukushima Daiichi Nuclear Power Station (Announced on November 16 - 30, 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	November															
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
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 Results of the Radioactive Fallout inside and Outside Fukushima Daiichi NPS	/	/	/	/	/	-	/	/	/	/	/	/	/	/	/	/
Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS	/	/	/	/	/	-	/	/	/	/	/	/	/	/	/	/

* With regard to this chart, the data of "Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Ibaraki Prefecture >" was not put by mistake. We apologize for any inconvenience this may cause. (Correction date: January 30, 2013)

**【Definite Report】 Nuclides Analysis Result of Radioactive Materials in the Seawater
< Coast, Fukushima Daiichi Nuclear Power Station, Remeasurement 1/2 >**

Place of Sampling	North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel)		Around South Discharge Channel of Fukushima Daiichi NPS (Approx. 330m South of Unit 1-4 Discharge Channel)		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	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	
	October 8, 2012 8:35 AM		October 8, 2012 8:15 AM		
Detected Nuclides (Half-life)	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)	1.0	0.02	1.3	0.02	60
Cs-137 (Approx. 30 years)	1.4	0.02	2.2	0.02	90
Mn-54 (Approx. 310 days)	ND	-	ND	-	1,000
Co-60 (Approx. 5 years)	ND	-	ND	-	200
Mo-99 (Approx. 66 hrs)	ND	-	ND	-	1,000
Tc-99m (Approx. 6 hrs)	ND	-	ND	-	40,000
Ag-110m (Approx. 250 days)	0.12	0.00	ND	-	300
Sb-125 (Approx. 3 years)	ND	-	ND	-	800
Te-129m (Approx. 34 days)	ND	-	ND	-	300
Te-129 (Approx. 70 mins)	ND	-	ND	-	10,000
Te-132 (Approx. 78 hrs)	ND	-	ND	-	200
I-132 (Approx. 2 hrs)	ND	-	ND	-	3,000
Cs-136 (Approx. 13 days)	ND	-	ND	-	300
Ba-140 (Approx. 13 days)	ND	-	ND	-	300
La-140 (Approx. 40 hrs)	ND	-	ND	-	400
Ce-144 (Approx. 280 days)	ND	-	ND	-	200

* 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. 3.8Bq/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 Radioactive Materials in the Seawater
< Coast, Fukushima Daiichi Nuclear Power Station, Remeasurement 2/2 >**

Place of Sampling	North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel)		Around South Discharge Channel of Fukushima Daiichi NPS (Approx. 330m South of Unit 1-4 Discharge Channel)		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	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	
	October 15, 2012 9:30 AM		October 15, 2012 8:10 AM		
Detected Nuclides (Half-life)	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)	0.57	0.01	0.32	0.01	60
Cs-137 (Approx. 30 years)	0.65	0.01	0.50	0.01	90
Mn-54 (Approx. 310 days)	ND	-	ND	-	1,000
Co-60 (Approx. 5 years)	ND	-	ND	-	200
Mo-99 (Approx. 66 hrs)	ND	-	ND	-	1,000
Tc-99m (Approx. 6 hrs)	ND	-	ND	-	40,000
Ag-110m (Approx. 250 days)	ND	-	ND	-	300
Sb-125 (Approx. 3 years)	ND	-	ND	-	800
Te-129m (Approx. 34 days)	ND	-	ND	-	300
Te-129 (Approx. 70 mins)	ND	-	ND	-	10,000
Te-132 (Approx. 78 hrs)	ND	-	ND	-	200
I-132 (Approx. 2 hrs)	ND	-	ND	-	3,000
Cs-136 (Approx. 13 days)	ND	-	ND	-	300
Ba-140 (Approx. 13 days)	ND	-	ND	-	300
La-140 (Approx. 40 hrs)	ND	-	ND	-	400
Ce-144 (Approx. 280 days)	ND	-	ND	-	200

* 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. 2.0Bq/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.