

Revised Edition

**Definite Results of Nuclides Analysis at Fukushima Daiichi Nuclear Power Station (Announced on September 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	September															
	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 the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station, Remeasurement >	/	/	/	/	/	/	/	/	/	/	/	/	-	/	/	
Nuclides Analysis Result of the Sub-drain Water in the Surroundings of the Central Radioactive Waste Treatment Facility	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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】 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)		② 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.)
	Sep 25, 2012 5:28 AM		N/A		Sep 25, 2012 5:35 AM		N/A		Sep 25, 2012 5:39 AM		Sep 25, 2012 5:43 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	8.8	0.15	-	-	8.6	0.14	-	-	9.5	0.16	13	0.22	60
Cs-137 (Approx. 30 years)	16	0.18	-	-	13	0.14	-	-	17	0.19	21	0.23	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/cm<sup>3</sup> 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)		② 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)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
	I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	
Cs-134 (Approx. 2 years)	18	0.30	130	2.2	35	0.58	130	2.2	32	0.53	53	0.88	60
Cs-137 (Approx. 30 years)	28	0.31	200	2.2	58	0.64	180	2.0	54	0.60	88	0.98	90
Mn-54 (Approx. 310 days)	ND	-	1.1	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/cm<sup>3</sup> 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. 12Bq/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								② 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.)
	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Time of Sampling	Sep 25, 2012 6:13 AM		N/A		Sep 25, 2012 7:45 AM								
Detected Nuclides (Half-life)													
I-131 (Approx. 8 days)	ND	-	-	-	ND	-							40
Cs-134 (Approx. 2 years)	29	0.48	-	-	ND	-							60
Cs-137 (Approx. 30 years)	44	0.49	-	-	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/cm<sup>3</sup> 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. 2Bq/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.