Definite Results of Nuclides Analysis at Fukushima Daiichi Nuclear Power Station (Announced on May 16-1315, 2012)

< Legend > - : γ nuclides except for the major 3 nuclides (I-131, Cs-134, Cs-137) were not detected.

: γ nuclides other than the major 3 nuclides (I-131, Cs-134, Cs-137) were detected.

/ : Not applicable or cancelled due to the bad weather

Please refer to the preliminary reports for the result of the major nuclides. Please refer to the following pages.

Announcement Date of the Preliminary Report	May															
Sampling Location	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	_	_	_	_	_	_	_	_	ı	_	ı	ı	ı	_	_	-
Nuclides Analysis Result of the Radioactive Materials in the Air at the Seaside of Fukushima Nuclear Power Stations			_							-						
Nuclides Analysis Result of Radioactive Materials in the Seawater < Coast >	_	_	_	_	_	_	_	_		_	_	-	_	_	_	-
Nuclides Analysis Result of Radioactive Materials in the Seawater < Offshore >		_	_							-						-
Nuclides Analysis Result of Radioactive Materials in the Seawater < Offshore Remeasurement >																
Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Ibaraki Prefecture >							_									
Nuclides Analysis Result of Radioactive Materials in the Seawater < Offshore of Miyagi prefecture >																
Nuclides Analysis Result of the Radioactive Materials in the Seawater of the Port	_	_		_		_	_	_	-	_	_	-	-	_	_	_
Nuclides Analysis Result of the Radioactive Materials in the Seawater of Unit 5-6 Intake																
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	-	_	_	_	_	_	_	_	İ	_	ı	l	I	_	_	I
Nuclides Analysis Results of the Radioactive Materials in the Air at the Opening of Buildings at Fukushima Daiichi NPS									ı							
Nuclides Analysis Results of the Radioactive Fallout inseide and Outside 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 U	nit 1-4 Water Int	take Canal (Nor	th) at 1F	Unit 1 Sci (Outside the		Unit 1 Sc (Inside the	Density Limit Specified by the Reactor Regulation	
Time of Sampling	May 17 7:03	7, 2012 3 AM	N	/A	May 17 7:12	7, 2012 2 AM	N	/A	May 17 7:20			7, 2012 2 AM	(Bq/L) (The density limit in the water outside the surrounding
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	monitored areas is provided in section 6 of Appendix 2.)
I-131 (Approx. 8 days)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	ND	-	-	-	8.5	0.14	-	-	4.2	0.07	10	0.17	60
Cs-137 (Approx. 30 years)	ND	-	-	-	13	0.14	-	-	13	0.14	15	0.17	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.

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

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

[Definite Report] Radioactivity Density of the Seawater in the Port of Fukushima Daiichi NPS < 2/3 >

Place of Sampling		reen at 1F e Silt Fence)	Unit 2 Scr (Inside the		Unit 3 Scr (Outside the		Unit 3 Scr (Inside the		Unit 4 Scr (Outside the			reen at 1F Silt Fence)	Density Limit Specified by the Reactor Regulation
Time of Sampling	May 1 ⁻ 7:28	7, 2012 3 AM	May 17 7:30	7, 2012 AM	May 17 7:37		May 17 7:38		May 17 7:43			7, 2012 5 AM	(Bq/L) (The density limit in the water outside the surrounding
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	monitored areas is provided in section 6 of Appendix 2.)
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	8.8	0.15	21	0.35	8.1	0.14	92	1.5	24	0.40	47	0.78	60
Cs-137 (Approx. 30 years)	11	0.12	30	0.33	15	0.17	160	1.8	38	0.42	64	0.71	90
Mn-54 (Approx. 310 days)	ND	-	0.69	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.

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

I-131: Approx. 11Bq/L

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

[Definite Report] Radioactivity Density of the Seawater in the Port of Fukushima Daiichi NPS < 3/3 >

Place of Sampling		4 Water Intake outh) at 1F	Port Entrance Daiich		In Front of Unit Canal								Density Limit Specified by the Reactor Regulation (Bq/L)
Time of Sampling	May 1 ⁻ 7:49	7, 2012 9 AM	N	/A	May 17 4:30								
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	the surrounding monitored areas is provided in section 6 of Appendix 2.)
I-131 (Approx. 8 days)	ND	-	-	-	ND	-							40
Cs-134 (Approx. 2 years)	23	0.38	-	-	3.2	0.05							60
Cs-137 (Approx. 30 years)	35	0.39	-	-	5.7	0.06							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	-	-	3	ND	-							400

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

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

I-131: Approx. 1Bq/L

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

[Definite Report] Radioactivity Density of the Seawater in the Port of Fukushima Daiichi NPS < 1/3 >

Place of Sampling		Shallow Draf	t Quay at 1F		Inside U	nit 1-4 Water Int	take Canal (Nor	th) at 1F	Unit 1 Sc (Outside the		Unit 1 Sc (Inside the	Density Limit Specified by the Reactor Regulation	
Time of Sampling		9, 2012 2 AM	N	/A	May 19 6:46		N	/A	May 19 6:49			9, 2012 I AM	(Bq/L) (The density limit in the water outside the surrounding
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	monitored areas is provided in section 6 of Appendix 2.)
I-131 (Approx. 8 days)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	12	0.20	-	-	11	0.18	-	-	7.6	0.13	9.3	0.16	60
Cs-137 (Approx. 30 years)	21	0.23	-	-	15	0.17	-	-	10	0.11	17	0.19	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.

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

I-131: Approx. 2Bq/L

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

[Definite Report] Radioactivity Density of the Seawater in the Port of Fukushima Daiichi NPS < 2/3 >

Place of Sampling		reen at 1F e Silt Fence)		Unit 2 Screen at 1F (Inside the Silt Fence)		reen at 1F e Silt Fence)	Unit 3 Sci (Inside the			reen at 1F e Silt Fence)		reen at 1F Silt Fence)	Density Limit Specified by the Reactor Regulation
Time of Sampling	May 19 6:54	9, 2012 I AM	May 19 6:56	9, 2012 5 AM		9, 2012 9 AM	May 19 7:03		May 19 6:59	9, 2012 9 AM		9, 2012 3 AM	(Bq/L) (The density limit in the water outside the surrounding
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	monitored areas is provided in section 6 of Appendix 2.)
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	9.0	0.15	28	0.47	10	0.17	260	4.3	50	0.83	110	1.8	60
Cs-137 (Approx. 30 years)	14	0.16	46	0.51	16	0.18	390	4.3	71	0.79	160	1.8	90
Mn-54 (Approx. 310 days)	ND	-	1.6	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.

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

I-131: Approx. 15Bq/L

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

[Definite Report] Radioactivity Density of the Seawater in the Port of Fukushima Daiichi NPS < 3/3 >

Place of Sampling	Inside Unit 1-4 Canal (So		Port Entrance Daiich			6 Water Intake I at 1F							Density Limit Specified by the Reactor Regulation
Time of Sampling	May 19 7:06		N/	'A		9, 2012 5 PM							(Bq/L) (The density limit in the water outside the surrounding
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	monitored areas is provided in section 6 of Appendix 2.)
I-131 (Approx. 8 days)	ND	-	-	-	ND	-							40
Cs-134 (Approx. 2 years)	60	1.0	-	-	ND	-							60
Cs-137 (Approx. 30 years)	89	0.99	-	-	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.

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

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

【Definite Report】 Nuclides Analysis Result of Marine Soil

Place of Sampling (Place No.)	North of Unit 5-6 Discharge Channel at 1F (Approx. 30m North of Unit 5-6 Discharge Channel) (T-1)	Around South Discharge Channel of 1F (1-4U Discharge Channel) (T-2)	3km Offshore of Northern Iwaki City (T-12)	1km Offshore of Natsui River (T-17-1)	3km Offshore of Toyoma (T-20)
Time of Sampling	May 14, 2012 8:45 AM	May 14, 2012 9:10 AM	May 14, 2012 6:30 AM	May 14, 2012 7:05 AM	May 14, 2012 7:30 AM
Detected Nuclides (Half-life)		Radio	activity Density (Bq/kg, Mois	st Soil)	
I-131 (Approx. 8 days)	ND	ND	ND	ND	ND
Cs-134 (Approx. 2 years)	350	700	67	39	54
Cs-137 (Approx. 30 years)	500	1,000	89	61	76
Mn-54 (Approx. 310 days)	ND	4.6	ND	ND	ND
Co-60 (Approx. 5 years)	ND	ND	ND	ND	ND
Tc-99m (Approx. 6 hrs)	ND	ND	ND	ND	ND
Ag-110m (Approx. 250 days)	ND	ND	ND	ND	ND
Sb-125 (Approx. 3 yrs)	ND	ND	ND	ND	ND
Te-129 (Approx. 70 mins)	ND	ND	ND	ND	ND
Te-129m (Approx. 34 days)	ND	ND	ND	ND	ND
Cs-136 (Approx. 13 days)	ND	ND	ND	ND	ND
Ba-140 (Approx. 13 days)	ND	ND	ND	ND	ND
La-140 (Approx. 40 hrs)	ND	ND	ND	ND	ND

^{* &}quot;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/kg• Moist Soil。
vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected. As the detection limit may