Reference

Radioactivity Density of the Seawater in the Port of Fukushima Daiichi NPS < 1/3 >

(Data summarized on April 11)

Place of Sampling	Shallow Draft Quay at 1F			Inside Unit 1-4 Water Intake Canal (North) at 1F			1F Unit 1 Screen (Outside the Silt Fence)		1F Unit 1 Screen (Inside the Silt Fence)		Density Limit Specified by the Reactor Regulation		
Time of Sampling	Apr 10, 2 6:02 Al		N/A		Apr 10, 20		N/A		Apr 10, 2 6:11 Al		Apr 10, 2 6:15 AN		(Bq/L) (The density limit in the water outside the
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 (/)	surrounding 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)	4.4	0.07	-	-	9.7	0.16	-	-	6.7	0.11	8.0	0.13	60
Cs-137 (Approx. 30 years)	6.6	0.07	-	-	19	0.21	-	-	15	0.17	15	0.17	90

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

^{*} Data of other nuclides is under evaluation.

* 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.

I-131: Approx. 1Bq/L

Reference

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

(Data summarized on April 11)

Place of Sampling	1F Unit 2 S (Outside the Si		1F Unit 2 So (Inside the Silt		1F Unit 3 S (Outside the Si		1F Unit 3 S (Inside the Sil		1F Unit 4 S (Outside the Si		1F Unit 4 S (Inside the Sil		Density Limit Specified by the Reactor Regulation
Time of Sampling	Apr 10, 2 6:18 Al		Apr 10, 20 6:20 AM		Apr 10, 2 6:23 AM		Apr 10, 2 6:25 Al		Apr 10, 2 6:28 Al		Apr 10, 2 6:30 AM		(Bq/L) (The density limit in the water outside the
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 (/)	surrounding 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)	14	0.23	9.7	0.16	17	0.28	39	0.65	17	0.28	20	0.33	60
Cs-137 (Approx. 30 years)	27	0.30	19	0.21	35	0.39	80	0.89	38	0.42	52	0.58	90

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

^{*} Data of other nuclides is under evaluation.
* 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.

I-131: Approx. 10Bq/L

Reference

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

(Data summarized on April 11)

Place of Sampling	Inside Unit 1- Intake Canal (1F		Port Entran Fukushima Dai		In Front of Unit								Density Limit Specified by the Reactor Regulation
Time of Sampling	Apr 10, 2 6:33 Al		N/A		Apr 10, 2 9:10 Al								(Bq/L) (The density limit in the water outside the
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 (/)	surrounding monitored areas is provided in section 6 of Appendix 2.)
I-131 (Approx. 8 days)	ND	-	-	-	ND	-							40
Cs-134 (Approx. 2 years)	32	0.53	-	-	ND	-							60
Cs-137 (Approx. 30 years)	62	0.69	-	-	ND	-							90

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

^{*} Data of other nuclides is under evaluation.

^{*} 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.

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

Nuclides Analysis Result of Radioactive Materials in the Unit 1-4 Water Intake

Place of Sampling	Place of Sampling North of Unit 1-4 Water Intake at Fukushima Daiichi NPS					
Date of Sampling	Sep 10, 2012	Sep 10, 2012				
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor	outside the surrounding monitored areas is provided in section 6 of Appendix 2.)			
I-131 (Approx. 8 days)	ND	-	40			
Cs-134 (Approx. 2 years)	9.7	0.2	60			
Cs-137 (Approx. 30 years)	19	0.2	90			
H-3 (approx. 12yrs)	160	0.0	60,000			
ΑΙΙ α	ND	-	-			
ΑΙΙ β	320	-	-			
Sr-89 (Approx. 51 days)	ND	-	300			
Sr-90 (Approx. 29 years)	200	6.7	30			

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

(Evaluation)

Although H-3, All β, Sr-90 were detected supposedly as a result of this accident, H-3 is less than the density limit in the water which is specified by the announcement.

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

^{*} Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on September 11. H-3, All and All βwere announced on October 5.

^{*} When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows. I-131: Approx. 2Bq/L, All α: Approx. 0.1Bq/L, Sr-89: Approx. 0.6Bq/L

^{*} Nuclides analysis of Sr-89 and Sr-90 were done by KAKEN Inc..

Nuclides Analysis Result of Radioactive Materials in the Unit 1-4 Water Intake

Place of Sampling	Place of Sampling North of Unit 1-4 Water Intake at Fukushima Daiichi NPS					
Date of Sampling	Oct 15, 2012		the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding			
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor	monitored areas is provided in			
I-131 (Approx. 8 days)	ND	-	40			
Cs-134 (Approx. 2 years)	6.7	0.1	60			
Cs-137 (Approx. 30 years)	14	0.2	90			
H-3 (approx. 12yrs)	220	0.0	60,000			
ΑΙΙ α	ND	-	-			
ΑΙΙ β	380	-	-			
Sr-89 (Approx. 51 days)	ND	-	300			
Sr-90 (Approx. 29 years)	220	7.3	30			

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

(Evaluation)

H-3, All and Sr-90 were detected supposedly as a result of this accident.

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

^{*} Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on October 16.

^{*} When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows. I-131: Approx. 1Bq/L, All α: Approx. 0.1Bq/L, Sr-89: Approx. 0.3Bq/L

^{*} Nuclides analysis of Sr-89 and Sr-90 were done by KAKEN Inc..

Analysis Result of Pu in the Seawater

1. Measurement Result:

(Unit: Bq/L)

Place of Sampling	Date	Pu-238	Pu-239+Pu-240
1F, North of Unit 1-4 Water Intake	Oct 15, 2012	N.D. [<1.5×10 ⁻³]	N.D. [<1.3×10 ⁻³]

[] shows below the detection limit.

- 2. Analytical Institution KAKEN Inc.
- 3. Evaluation:

Pu-238 and Pu-239+Pu-240 were not detected in the sample collected this time.

End

Radioactivity Density of the Seawater in Front of the Shallow Draft Quay at 1F (Bq/L)























