Reference

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

(Data summarized on March 21)

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	Mar 20, 2 6:20 Al		N/A		Mar 20, 2 6:24 AN		N/A		Mar 20, 2 6:28 Al		Mar 20, 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
I-131 (Approx. 8 days)	ND	-	-	-	ND	-	-	-	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	ND	-	-	-	6.8	0.11	-	-	5.4	0.09	8.3	0.14	60
Cs-137 (Approx. 30 years)	2.6	0.03	-	-	8.8	0.10	-	-	13	0.14	12	0.13	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.1Bq/L

Reference

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

(Data summarized on March 21)

Place of Sampling	1F Unit 2 S (Outside the S		1F Unit 2 S (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	Mar 20, 2 6:33 Al		Mar 20, 2 6:36 AM		Mar 20, 2 6:40 Al		Mar 20, 2 6:44 AN		Mar 20, 2 6:40 AM		Mar 20, 2 6:44 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
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	5.7	0.10	11	0.18	7.2	0.12	17	0.28	ND	-	ND	-	60
Cs-137 (Approx. 30 years)	14	0.16	22	0.24	15	0.17	53	0.59	ND	-	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. 9Bq/L, Cs-134: Approx.16Bq/L, Cs-137: Approx.21Bq/L

Reference

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

(Data summarized on March 21)

Place of Sampling	Inside Unit 1- Intake Canal (1F		Port Entran Fukushima Dai		In Front of Uni Intake Cana								Density Limit Specified by the Reactor Regulation
Time of Sampling	Mar 20, 2 6:50 Al		N/A		N/A								(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	-	-	-	-	-							40
Cs-134 (Approx. 2 years)	6.3	0.11	-	-	-	-							60
Cs-137 (Approx. 30 years)	16	0.18	-	-	-	-							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

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	Jul 9, 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)	ND	-	60				
Cs-137 (Approx. 30 years)	ND	-	90				
H-3 (approx. 12yrs)	13	0.00	60,000				
All α	ND	-	-				
ΑΙΙ β	31	-	-				
Sr-89 (Approx. 51 days)	ND	-	300				
Sr-90 (Approx. 29 years)	9	0.3	30				

^{*} 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.

(Evaluation)

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 July 10. H-3, All and All βwere announced on October 3.

^{*} 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..

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	Aug 13, 2012	Aug 13, 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)	23	0.38	60				
Cs-137 (Approx. 30 years)	41	0.46	90				
H-3 (approx. 12yrs)	190	0.00	60,000				
ΑΙΙ α	ND	-	-				
ΑΙΙ β	120	-	-				
Sr-89 (Approx. 51 days)	ND	-	300				
Sr-90 (Approx. 29 years)	55	1.8	30				

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

(Evaluation)

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 August 14. H-3, All and All βwere announced on October 3.

^{*} 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. 0.09Bq/L, Sr-89: Approx. 0.5Bq/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	Sep 10, 2012	N.D. [<1.9×10 ⁻³]	N.D. [<1.6×10 ⁻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)





















