Reference

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station >

(Data summarized on April 18)

Place of Sampling	North of Unit 5-6 Discharge Daiichi N (Approx. 30m North of Unit 8	IPS	Around South Discharge C Daiichi N (Appox. 1.3km South of Unit	the Reactor Regulation (Bq/L)		
Time of Sampling	Apr 17, 2 6:50 A		Apr 17, 2 7:05 A	(The density limit in the water outside the surrounding monitored areas is provided in		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	section 6 of Appendix 2.)	
I-131 (Approx. 8 days)	ND	-	ND	-	40	
Cs-134 (Approx. 2 years)	ND	-	ND	-	60	
Cs-137 (Approx. 30 years)	ND -		ND	-	90	

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

I-131: Approx. 0.46Bq/L, Cs-134: Approx. 1.0Bq/L, Cs-137: Approx. 1.4Bq/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.

^{*} 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.

Nuclides Analysis Result of Radioactive Materials in the Seawater

(Data summarized on April 18)

							(Data summanzed on April 10)	
Place of Sampling (Place No.)	North of Unit 5-6 I Channel at Fukush NPS (Approx. 30m North Discharge Chan	ima Daiichi n of Unit 5-6	Around South Discha of Fukushima Da (Appox. 1.3km Sout Discharge Chann	iichi NPS h of Unit 1-4			② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water	
Date of Sampling	Mar 11, 20	113	Mar 11, 20	113			outside the surrounding monitored areas is provided in	
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)	section 6 of Appendix 2.)	
I-131 (Approx. 8 days)	ND	_	ND	_			40	
Cs-134 (Approx. 2 years)	ND	_	ND	_			60	
Cs-137 (Approx. 30 years)	ND	_	ND	_			90	
H-3 (approx. 12yrs)	ND	_	ND	_			60,000	
All α	ND	_	ND	_			_	
ΑΙΙ β	ND	_	ND	_			_	
Sr-89 (Approx. 51 days)	ND	_	ND	_			300	
Sr-90 (Approx. 29 years)	1.9	0.06	0.31	0.01			30	

^{*} The density specified by the Reactor Regulation is converted from Bq/cm 3 to Bq/L.

Sr-89: Approx. 0.2Bq/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.

* Nuclides analysis of Sr-89 and Sr-90 were done by Japan Chemical Analysis Center.

(Evaluation)

Although Sr-90 was detected supposedly as a result of this accident, it 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 and All β obtained at "Around South Discharge Channel of Fukushima Daiichi NPS" were announced on March

 $^{^{\}star}$ When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

I-131: Approx. 0.43Bq/L, Cs-134: Approx. 1.1Bq/L, Cs-137: Approx. 1.4Bq/L,

H-3: Approx. 3.2Bq/L, All α : Approx. 0.11Bq/L, All β : Approx. 25Bq/L,

Nuclides Analysis Result of Radioactive Materials in the Seawater < Offshore >

(Data summarized on April 18)

Place of Sampling (Place No.)	1km Oπshore of Nida River (1-13-1)			3km Offshore of Soma (T-22) Upper Layer Lower Layer				5km Offshore of Kashima (T-MA)				② Density Limit Specified by the Reactor Regulation	
Time of Sampling	Upper La Mar 5, 20 6:49 A	013	Lower La Mar 5, 2 6:49 A	013	Mar 5, 2	013	Mar 5, 2 7:51 A	013	Upper La Mar 5, 20 7:21 Al	013	Lower La Mar 5, 2 7:21 A	013	(Bq/L) (The density limit in the water outside the
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)	surrounding monitored areas is provided in section 6 of Appendix 2.)
Cs-134 (Approx. 2 years)	0.0094	0.00	0.0082	0.00	0.0048	0.00	0.0049	0.00	0.0054	0.00	0.0075	0.00	60
Cs-137 (Approx. 30 years)	0.019	0.00	0.017	0.00	0.010	0.00	0.0096	0.00	0.011	0.00	0.015	0.00	90

Place of Sampling (Place No.)	Around 1km Offshore of Ota River (T-S1) Upper Layer Lower Layer			Around 3km Offshore of Odaka Ward (T-S2) Upper Layer Lower Layer				Upper Layer Lower Layer				② Density Limit Specified by the Reactor Regulation (Bg/L)	
Time of Sampling	Mar 7, 20 5:54 A		Mar 7, 20 5:54 Al		Mar 7, 20 6:21 Al		Mar 7, 20 6:21 A						(The density limit in the water outside the surrounding monitored
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)	areas is provided in section 6 of Appendix 2.)
Cs-134 (Approx. 2 years)	0.014	0.00	0.011	0.00	0.016	0.00	0.016	0.00					60
Cs-137 (Approx. 30 years)	0.025	0.00	0.021	0.00	0.034	0.00	0.032	0.00					90

^{*} 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.

^{*} Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

 $^{^{\}star}$ Analyzed by: THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

Nuclides Analysis Result of Radioactive Materials in the Seawater

(Data summarized on April 18)

Place of Sampling (Place No.)	15km Offshore of Fukushima Daiichi NPS (T-5) Upper Layer		3km Offshore of Uk D1) Upper I	•	3km Offshore of F Daiichi NPS (T-D5)		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water	
Date of Sampling	Mar 6, 20	13	Mar 5, 20)13	Mar 5, 20	13	outside the surrounding monitored areas is provided in	
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)	section 6 of Appendix 2.)	
Cs-134 (Approx. 2 years)	0.0018	0.00	0.039	0.00	0.036	0.00	60	
Cs-137 (Approx. 30 years)	0.0043	0.00	0.071	0.00	0.064	0.00	90	
H-3 (approx. 12yrs)	ND	_	ND	_	ND	_	60,000	
All α	ND	_	ND	_	ND	_	_	
ΑΙΙ β	ND	_	ND	_	ND	_	-	
Sr-89 (Approx. 51 days)	ND	_	ND	_	ND	_	300	
Sr-90 (Approx. 29 years)	ND	_	0.056	0.00	0.042	0.00	30	

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

Sr-89: Approx. 0.03Bq/L, Sr-90: 0.009Bq/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)

Although Sr-90 was detected supposedly as a result of this accident, it 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 Cs-134, Cs-137 were announced on April 4 and 11.

^{*} When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

H-3: Approx. 2.9Bq/L, All α: Approx. 3.3Bq/L, All β: Approx. 19Bq/L,

^{*} Nuclides analysis of Sr-89 and Sr-90 were done by Japan Chemical Analysis Center.

Nuclides Analysis Result of Radioactive Materials in the Seawater

(Data summarized on April 18)

							(Data Summanzed on April 10)	
Place of Sampling (Place No.)	3km Offshore of Fuk NPS (T-D9) Upp		aini				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water	
Date of Sampling	Mar 6, 20	13					outside the surrounding monitored areas is provided in	
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)	section 6 of Appendix 2.)	
Cs-134 (Approx. 2 years)	0.0040	0.00					60	
Cs-137 (Approx. 30 years)	0.011	0.00					90	
H-3 (approx. 12yrs)	ND	_					60,000	
All α	ND	_					_	
ΑΙΙ β	ND	_					_	
Sr-89 (Approx. 51 days)	ND	_					300	
Sr-90 (Approx. 29 years)	ND	_					30	

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

H-3: Approx. 2.9Bq/L, All α: Approx. 3.3Bq/L, All β: Approx. 19Bq/L,

Sr-89: Approx. 0.02Bq/L, Sr-90: Approx. 0.007Bq/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)

H-3, All α radiation, All β radiation, Sr-89 and Sr-90 were not detected in the sample collected this time.

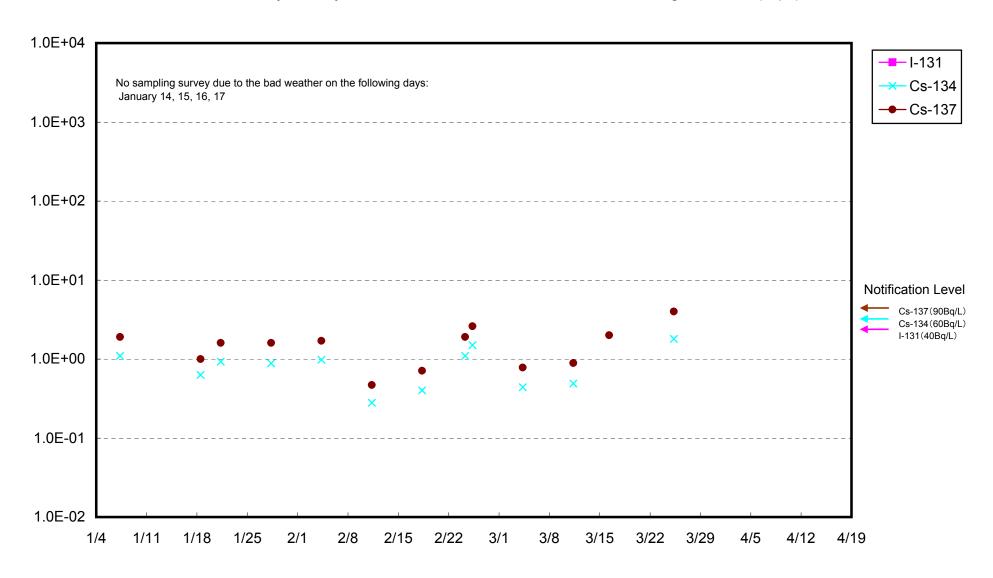
^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{*} Nuclide analysis results of Cs-134, Cs-137 were announced on April 4.

^{*} When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

^{*} Nuclides analysis of Sr-89 and Sr-90 were done by Japan Chemical Analysis Center.

Radioactivity Density of the Seawater at 1F Units 5-6 North Discharge Channel (Bq/L)



Radioactivity Density of the Seawater at 1F South Discharge Channel (Bq/L)

