Reference

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

(Data summarized on January 9)

Place of Sampling	North of Unit 5-6 Discharge Daiichi N (Approx. 30m North of Unit 5	IPS	Around South Discharge C Daiichi N (Appox. 1.3km South of Unit	the Reactor Regulation (Bq/L)	
Time of Sampling	Jan 8, 20 7:20 A		Jan 8, 2 5:40 A	(The density limit in the water outside the surrounding monitored areas is provided in	
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	section 6 of Appendix 2.)
I-131 (Approx. 8 days)	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	0.87	0.01	ND	-	60
Cs-137 (Approx. 30 years)	2.4	2.4 0.03		ND -	

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

* 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.

* "ND" indicates that the measurement result is below the detection limit.

I-131: Approx. 0.77Bq/L, Cs-134: Approx. 0.72Bq/L, Cs-137: Approx. 0.62Bq/L

Nuclides Analysis Result of Radioactive Materials in the Seawater <1/6>

(Data summarized on January 9)

					1	,	<u> </u>
Place of Sampling (Place No.)	Central Area of Sendai Bay (T-MG5) Upper Layer		, , , , , , , , , , , , , , , , , , ,				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water
Date of Sampling	Sep 6, 20	013	Sep 11, 2013				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)	ND	-	ND	_			60
Cs-137 (Approx. 30 years)	0.0025	0.00	ND	_			90
Sr-90 (Approx. 29 years)	_	_	_	_			30

* 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.

* Nuclide analysis results of Cs-134, Cs-137 were announced on December 13 (Central Area of Sendai Bay) and September 19 (3km Offshore of Oarai Shore) * When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 0.91Bq/L, Cs-137: Approx. 1.1Bq/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.

* Nuclides analysis of Sr-90 was done by Japan Chemical Analysis Center.

Nuclides Analysis Result of Radioactive Materials in the Seawater <2/6>

(Data summarized on January 9)

r	1					(Data Summanzeu on January 9)
Place of Sampling (Place No.)	North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel) (T-1)		Around South Disch of Fukushima Da (Appox. 1.3km Sout Discharge Chann	aiichi NPS th of Unit 1-4			 ② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water)
Date of Sampling	Sep 23, 20	013	Sep 23, 2013				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.)
l-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-90 (Approx. 29 years)	0.11	_	0.14	_			30

* 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.

* Nuclide analysis results of I-131, Cs-134, Cs-137 and All β were announced on September 24 (H-3: September 27, All α: October 24).

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

I-131: Approx. 1.2Bq/L, Cs-134: Approx. 1.2Bq/L, Cs-137: Approx. 1.4Bq/L,

H-3: Approx. 1.8Bq/L, All α: Approx. 0.13Bq/L, All β: Approx. 17Bq/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-90 was done by Japan Chemical Analysis Center.

Nuclides Analysis Result of Radioactive Materials in the Seawater <3/6>

(Data summarized on January 9)

	r		1		r	(Data Summanzeu on Sandary 9)	
Place of Sampling (Place No.)	North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel) (T-1)		Of Fukushima Dalichi NPS				 ② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water 	
Date of Sampling	Oct 14, 20)13	Oct 14, 2013				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.)	
l-131 (Approx. 8 days)	ND	_	ND	_			40	
Cs-134 (Approx. 2 years)	ND	_	ND	_			60	
Cs-137 (Approx. 30 years)	1.5	0.02	ND	_			90	
H-3 (approx. 12yrs)	2.4	0.00	ND	_			60,000	
All α	ND	Ι	ND	_			_	
ΑΙΙ β	ND	_	ND	_			-	
Sr-90 (Approx. 29 years)	0.83	0.03	0.069	0.00			30	

* 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.

* Nuclide analysis results of I-131, Cs-134, Cs-137 and All β were announced on October 15 (H-3: October 18).

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

I-131: Approx. 1.1Bq/L, Cs-134: Approx. 1.0Bq/L, Cs-137: Approx. 1.1Bq/L,

H-3: Approx. 1.8Bq/L, All α: Approx. 0.13Bq/L, All β: Approx. 17Bq/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-90 was done by Japan Chemical Analysis Center.

Nuclides Analysis Result of Radioactive Materials in the Seawater <4/6>

(Data summarized on January 9)

Place of Sampling (Place No.) Date of Sampling	15km Offshore of Fukushima Daiichi NPS (T-5) Upper Layer Oct 18, 2013		PS (T-5) Upper Layer D1) Upper Layer		3km Offshore of Fukushima Daiichi NPS (T-D5) Upper Layer Oct 18, 2013		 ② Density Limit Specified by the Reactor Regulation (Bq/L) (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)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	section 6 of Appendix 2.)	
Cs-134 (Approx. 2 years)	0.0021	0.00	0.1	0.00	0.13	0.00	60	
Cs-137 (Approx. 30 years)	0.0051	0.00	0.22	0.00	0.3	0.00	90	
H-3 (approx. 12yrs)	ND	_	ND	_	0.44	0.00	60,000	
All α	_	_	_	_	_	_	_	
All β	ND	_	ND	_	ND	_	_	
Sr-90 (Approx. 29 years)	_	_	_	_	_	_	30	

* 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.

* Nuclide analysis results of Cs-134, Cs-137 were announced as follows; T-5: November 29, T-D1 and T-D5: November 21

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

H-3: Approx. 0.34Bq/L, All β : Approx. 18Bq/L

Nuclides Analysis Result of Radioactive Materials in the Seawater <5/6>

						(Data summarized on January 9)		
Place of Sampling (Place No.)	3km Offshore of Fukushima Daini NPS (T-D9) Upper Layer						② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water		
Date of Sampling	Oct 18, 2013		Oct 18, 2013						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)	0.0690	0.00					60		
Cs-137 (Approx. 30 years)	0.15	0.00					90		
H-3 (approx. 12yrs)	ND	_					60,000		
All α	_	_					_		
All β	ND	_					_		
Sr-90 (Approx. 29 years)	_	_					30		

* 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.

* Nuclide analysis results of Cs-134, Cs-137 were announced on November 21.

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

H-3: Approx. 0.34Bq/L, All β : Approx. 18Bq/L

Nuclides Analysis Result of Radioactive Materials in the Seawater <6/6>

(Data summarized on January 9)

						(Data summarized on January 9)	
Place of Sampling (Place No.)	Around the North Discharge Channel of 2F (T-3) (Around Unit 3-4 Discharge Channel) (Approx. 10km from 1F)		South side of the Ukedo Port (T- 6) (Approx. 5.5km north of Unit 5-6 Discharge Channel)				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water	
Date of Sampling	Oct 15, 20)13	Oct 15, 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)	0.073	0.00	0.047	0.00			60	
Cs-137 (Approx. 30 years)	0.15	0.00	0.11	0.00			90	
H-3 (approx. 12yrs)	ND	_	0.84	0.00			60,000	
All β	_	_	_	-			—	
Sr-90 (Approx 29 years)	ND	_	ND	_			30	

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

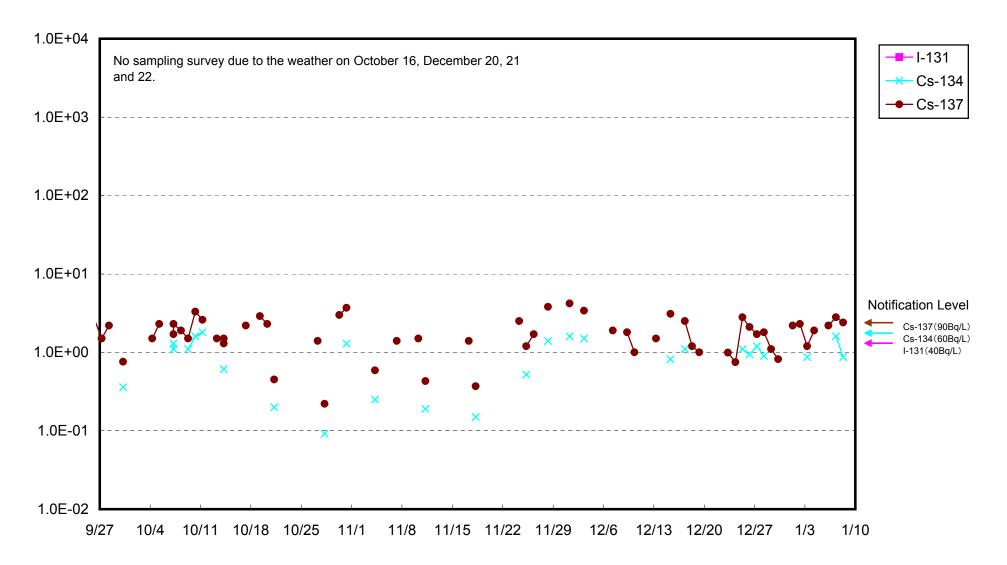
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Nuclide analysis results of Cs-134 and Cs-137 were announced on November 22.

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

H-3: Approx. 0.34Bq/L, All β: Approx. 17Bq/L,

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)

