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 5	IPS	Around South Discharge C Daiichi N (Appox. 1.3km South of Unit	② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in	
Time of Sampling	Apr 17, 2 7:25 A		Apr 17, 2 5:31 A		
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(0.70)	-	ND(0.77)	-	40
Cs-134 (Approx. 2 years)	ND(0.59)	-	ND(0.84)	-	60
Cs-137 (Approx. 30 years)	ND(0.74)	-	ND(0.76) -		90

^{*} 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.

^{* &}quot;ND" indicates that the measurement result is below the detection limit, which is provided in parentheses.

Nuclides Analysis Result of Radioactive Materials in the Seawater <1/5>

(Data summarized on April 18)

	1		_		1		(Data Sammanzea on April 10)	
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 Discharge Channel of Fukushima Daiichi NPS (Appox. 1.3km South of Unit 1-4 Discharge Channel) (T-2-1)				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in	
Date of Sampling	Mar 10, 2014		Mar 10, 2014					
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(0.79)	_	ND(0.68)	_			40	
Cs-134 (Approx. 2 years)	ND(0.78)	_	ND(0.55)	_			60	
Cs-137 (Approx. 30 years)	0.77	0.01	ND(0.70)	_			90	
H-3 (approx. 12yrs)	4.4	0.00	ND(1.4)	_			60,000	
Gross α	ND(1.5)	-	ND(1.5)	_			_	
Gross β	13	_	13	_			_	
Sr-90 (Approx. 29 years)	0.69	0.02	0.032	0.00			30	

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

(Evaluation)

Although H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident, they are 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 Gross β were announced on March 11. Nuclide analysis results of H-3 were announced on March 14.

^{*} When the measurement value is below the detection limit, "ND" is marked.

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

Nuclides Analysis Result of Radioactive Materials in the Seawater <2/5>

(Data summarized on April 18)

							(Bata sammanzea on riphi 10)	
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	Mar 4, 20	14	Mar 11, 2014				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)	0.05	0.00	0.019	0.00			60	
Cs-137 (Approx. 30 years)	0.14	0.00	0.053	0.00			90	
H-3 (approx. 12yrs)	ND	_	ND	_			60,000	
Gross β	ND	_	ND	_			_	

^{*} 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)

H-3 and Gross β 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 and Cs-137 were announced on September 19.

^{*} When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows. H-3: Approx. 0.29Bg/L, All β: Approx. 17Bg/L,

Nuclides Analysis Result of Radioactive Materials in the Seawater <3/5>

(Data summarized on April 18)

Place of Sampling (Place No.)	Central Area of Sendai Bay (T- MG5) Upper Layer		3km Offshore of Oarai Shore (T- C) Upper Layer				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water
Date of Sampling	Mar 4, 2014		Mar 12, 2014				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)	0.0033	0.00	ND	_			60
Cs-137 (Approx. 30 years)	0.012	0.00	ND	_			90
Sr-90 (Approx. 29 years)	ND	_	ND	_			30

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

Cs-134: Approx. 0.99Bq/L, Cs-137: Approx. 1.0Bq/L, Sr-90: Approx. 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)

Sr-90 was 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 March 25 and April 11, 2014.

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

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

Nuclides Analysis Result of Radioactive Materials in the Seawater <4/5>

(Data summarized on April 18)

Place of Sampling (Place No.) Date of Sampling	15km Offshore of Fukushima Daiichi NPS (T-5) Upper Layer Mar 5, 2014		3km Offshore of Ukedo River (T-D1) Upper Layer Mar 4, 2014		3km Offshore of Fukushima Daiichi NPS (T-D5) Upper Layer Mar 4, 2014		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)	0.0016	0.00	0.0039	0.00	0.0073	0.00	60	
Cs-137 (Approx. 30 years)	0.0042	0.00	0.015	0.00	0.018	0.00	90	
H-3 (approx. 12yrs)	ND	_	ND	_	ND	ı	60,000	
Gross a	ND	_	ND	_	ND	I	_	
Gross β	ND	_	ND	_	ND	_	_	
Sr-90 (Approx. 29 years)	ND	_	ND	_	ND	_	30	

^{*} The density specified by the Reactor Regulation is converted from Bg/cm³ to Bg/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, Gross α , Gross β , 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 11, 2014...

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

H-3: Approx. 0.29Bq/L, Gross α : Approx. 1.9Bq/L, Gross β : Approx. 15Bq/L, Sr-90: Approx. 0.009Bq/L

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

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

(Data summarized on April 18)

Place of Sampling (Place No.) Date of Sampling	NPS (T-D9) Upp	m Offshore of Fukushima Daini NPS (T-D9) Upper Layer Mar 3, 2014					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)	0.0058	0.00					60
Cs-137 (Approx. 30 years)	0.014	0.00					90
H-3 (approx. 12yrs)	ND	1					60,000
Gross α	ND	-					_
Gross β	ND	_					_
Sr-90 (Approx. 29 years)	ND	_					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.

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

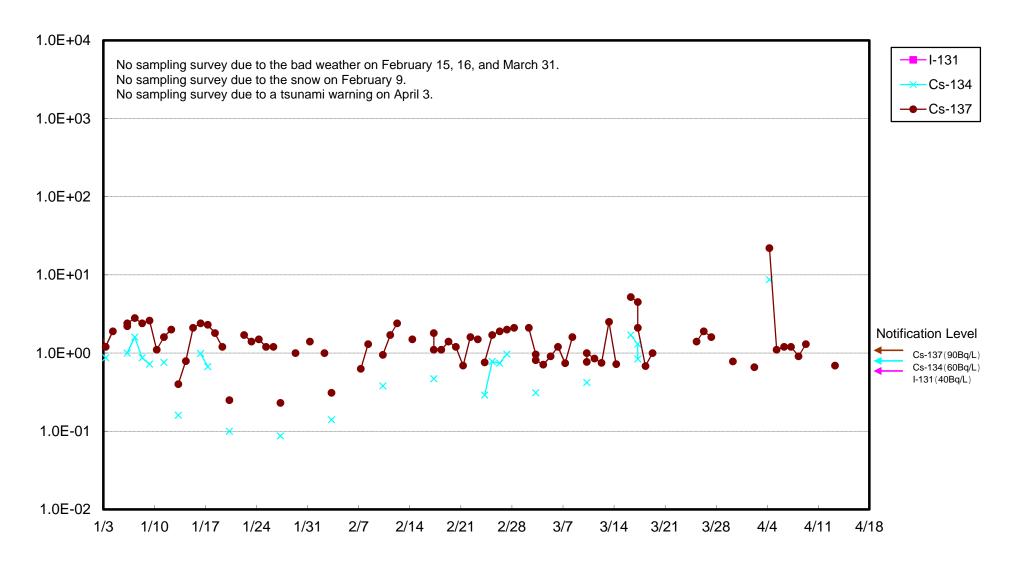
^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{*} Nuclide analysis results of Cs-134, Cs-137 were announced on April 11, 2014.

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

H-3: Approx. 0.29Bq/L, Gross α : Approx. 1.9Bq/L, Gross β : Approx. 15Bq/L, Sr-90: Approx. 0.008Bq/L

^{*} Nuclides analysis of Sr-90 was done by Japan Chemical Analysis Center. (Evaluation)



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

