

## Results of Nuclide Analysis of Seawater <Coast>

Reference

(Data summarized on May 20)

Place of Sampling	North of Discharge Channel of 5-6u of 1F (approx. 30m north of 5-6u discharge channel)				Around South Discharge Channel of 1F ( approx. 330m south of 1-4u Discharge Channel)				Around North Discharge Channel of 2F ( Around 3,4u Discharge Channel) ( approx. 10 km from 1F )		Around Iwasawa Shore of 2F ( approx. 7 km south of 1,2u Discharge Channel) ( approx. 16 km from 1F )		Density limit by the announcement of Reactor Regulation (Bq/cm <sup>3</sup> )  (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time and Date of Sample Collection	At 9:30 May 19, 2011		At 14:10 May 19, 2011		At 8:50 May 19, 2011		At 13:50 May 19, 2011		At 8:40 May 19, 2011		At 7:55 May 19, 2011		
Detected Nuclides (Half-life)	Density of Sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (about 8 days)	ND	-	15	0.38	ND	-	4.1	0.10	ND	-	ND	-	40
Cs-134 (about 2 years)	130	2.2	110	1.8	71	1.2	69	1.2	31	0.52	21	0.35	60
Cs-137 (about 30 years)	110	1.2	120	1.3	73	0.81	80	0.89	32	0.36	21	0.23	90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm<sup>3</sup> to Bq/L

Data of other nuclides are under evaluation.

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

## Results of Nuclide Analysis of Seawater <Offshore 1/2>

Reference

(Data summarized on May 20)

Place of Sampling	15 km offshore of Minamisoma City		15 km offshore of Ukedo-gawa		15 km offshore of Fukushima Daiichi		15 km offshore of Fukushima Daini		15 km offshore of Iwasawa Shore		15 km offshore of Hirono-machi		Density limit by the announcement of Reactor Regulation (Bq/cm <sup>3</sup> ) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time and Date of Sample Collection	Cancelled May 19, 2011		Cancelled May 19, 2011		At 8:30 May 19, 2011		At 8:05 May 19, 2011		Cancelled May 19, 2011		Cancelled May 19, 2011		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (about 8 days)	/	/	/	/	ND	-	ND	-	/	/	/	/	40
Cs-134 (about 2 years)	/	/	/	/	ND	-	ND	-	/	/	/	/	60
Cs-137 (about 30 years)	/	/	/	/	ND	-	ND	-	/	/	/	/	90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm<sup>3</sup> to Bq/L

Data of other nuclides are under evaluation.

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

Samples that does not indicate "Upper Layer" or "Lower Layer" are taken from "Upper Layer".

Place of Sampling	3 km offshore of Haramachi-ku		3 km offshore of Odaka-ku		3 km offshore of Iwasawa Shore		8 km offshore of Odaka-ku		8 km offshore of Iwasawa Shore		/		Density limit by the announcement of Reactor Regulation (Bq/cm <sup>3</sup> ) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time and Date of Sample Collection	Cancelled May 19, 2011		Cancelled May 19, 2011		Cancelled May 19, 2011		Cancelled May 19, 2011		Cancelled May 19, 2011		/		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (about 8 days)	/	/	/	/	/	/	/	/	/	/	/	/	40
Cs-134 (about 2 years)	/	/	/	/	/	/	/	/	/	/	/	/	60
Cs-137 (about 30 years)	/	/	/	/	/	/	/	/	/	/	/	/	90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm<sup>3</sup> to Bq/L

Data of other nuclides are under evaluation.

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

Samples that does not indicate "Upper Layer" or "Lower Layer" are taken from "Upper Layer".

Results of Nuclide Analysis of Seawater <Offshore 2/2>

Reference

(Data summarized on May 20)

Place of Sampling	3 km offshore of Iwaki-shi (Upper layer)		3 km offshore of Iwaki-shi (Lower layer)		3 km offshore of Natsui River (Upper layer)		3 km offshore of Natsui River (Lower layer)		3 km offshore of Onahama Port (Upper layer)		3 km offshore of Onahama Port (Lower layer)		Density limit by the announcement of Reactor Regulation (Bq/cm <sup>3</sup> ) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time and Date of Sample Collection	At 4:55 May 19, 2011		At 4:55 May 19, 2011		At 5:25 May 19, 2011		At 5:25 May 19, 2011		At 6:10 May 19, 2011		At 6:10 May 19, 2011		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	18	0.30	ND	-	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm<sup>3</sup> to Bq/L

Data of other nuclides are under evaluation.

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

Samples that does not indicate "Upper Layer" or "Lower Layer" are taken from "Upper Layer".

Place of Sampling	3 km offshore of Ena(Upper layer)		3 km offshore of Ena (Lower layer)		3 km offshore of Numanouchi (Upper layer)		3 km offshore of Numaonouchi(Lower layer)		3 km offshore of Toyoma(Upper layer)		3 km offshore of Toyoma (Lower layer)		Density limit by the announcement of Reactor Regulation (Bq/cm <sup>3</sup> ) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time and Date of Sample Collection	At 7:00 May 19, 2011		At 7:00 May 19, 2011		At 5:40 May 19, 2011		At 5:40 May 19, 2011		At 6:00 May 19, 2011		At 6:00 May 19, 2011		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	4.6	0.08	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (about 30 years)	ND	-	6.6	0.07	ND	-	ND	-	ND	-	ND	-	90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm<sup>3</sup> to Bq/L

Data of other nuclides are under evaluation.

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

Samples that does not indicate "Upper Layer" or "Lower Layer" are taken from "Upper Layer".