

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

(Data summarized on October 29)

Place of Sampling	North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel)		Around South Discharge Channel of Fukushima Daiichi NPS (Approx. 330m South of Unit 1-4 Discharge Channel)		Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Oct 28, 2012 8:20 AM		Oct 28, 2012 8:00 AM		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	
I-131 (Approx. 8 days)	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	ND	-	ND	-	60
Cs-137 (Approx. 30 years)	2.0	0.02	ND	-	90

\* The density specified by the Reactor Regulation is converted from Bq/cm<sup>3</sup> 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. 0.50Bq/L, Cs-134: Approx.1.1Bq/L, Cs-137: Approx.1.5Bq/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 Result of Radioactive Materials in the Seawater < 1/2 >

(Data summarized on October 29)

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 (Approx. 330m South of Unit 1-4 Discharge Channel) (T-2)		/		Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Date of Sampling	Jun 25, 2012 *		Jun 25, 2012 *		/	
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 ( / )	
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	-	/	/	-
All β	ND	-	ND	-	/	/	-
Sr-89 (Approx. 51 days)	ND	-	ND	-	/	/	300
Sr-90 (Approx. 29 years)	0.11	0.00	0.41	0.01	/	/	30

\* I-131, Cs-134 and Cs-137: Sampling were conducted on June 11, and nuclide analysis were announced on June 12.

H-3, All α and All β: Sampling were conducted on June 11, and nuclide analysis were announced on October 3.

\* The density specified by the Reactor Regulation is converted from Bq/cm<sup>3</sup> to Bq/L.

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

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

I-131: Approx. 0.51Bq/L , Cs-134: Approx.1.2Bq/L , Cs-137: Approx.1.6Bq/L , H-3: Approx. 3.1Bq/L , All α: Approx. 0.12Bq/L , All β: Approx. 27Bq/L, Sr-89: Approx. 0.2Bq

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.

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

(Data summarized on October 29)

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 (Approx. 330m South of Unit 1-4 Discharge Channel) (T-2)		/		Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Date of Sampling	Jul 19, 2012 *	Jul 19, 2012 *				
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 ( / )	
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	-	/	/	-
All β	ND	-	ND	-	/	/	-
Sr-89 (Approx. 51 days)	ND	-	ND	-	/	/	300
Sr-90 (Approx. 29 years)	5.7	0.19	0.90	0.03	/	/	30

\* I-131, Cs-134 and Cs-137: Sampling were conducted on July 9, and nuclide analysis were announced on July 10.

H-3, All α and All β: Sampling were conducted on July 9, and nuclide analysis were announced on October 3.

\* The density specified by the Reactor Regulation is converted from Bq/cm<sup>3</sup> to Bq/L.

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

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

I-131: Approx. 0.51Bq/L , Cs-134: Approx.1.3Bq/L , Cs-137: Approx.1.6Bq/L , H-3: Approx. 3.1Bq/L , All α: Approx. 0.12Bq/L , All β: Approx. 28Bq/L, Sr-89: Approx. 0.6Bq

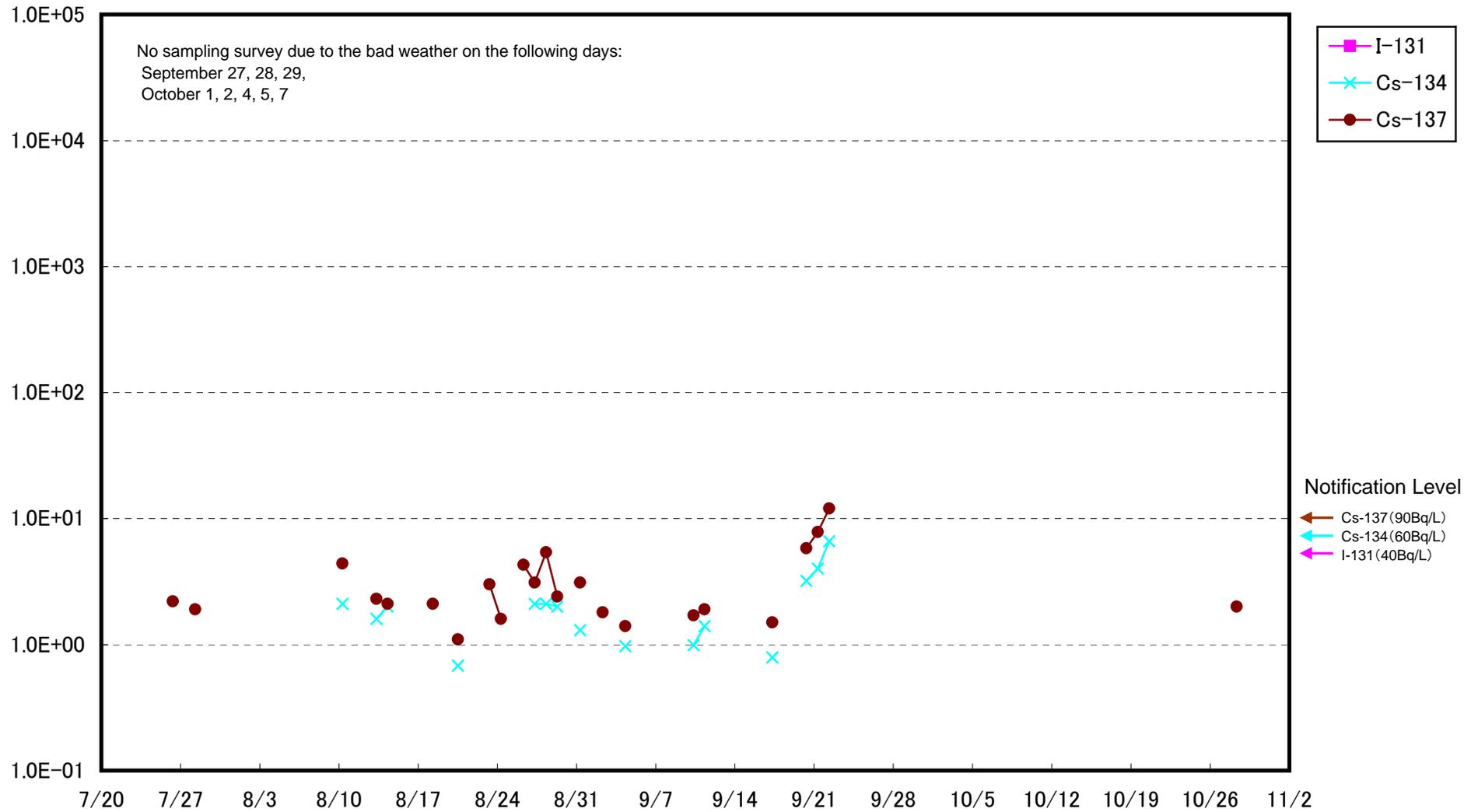
As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* 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.

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



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

