Reference

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

(Data summarized on February 7)

Place of Sampling	North of Unit 5-6 Discharge Daiichi N (Approx. 30m North of Unit 9	NPS	Around South Discharge C Daiichi N (Appox. 1.3km South of Unit	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	Feb 6, 2 7:50 A		Feb 6, 2 Not Sam			
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	-	-	-	40	
Cs-134 (Approx. 2 years)	ND	-	-	-	60	
Cs-137 (Approx. 30 years)	ND -		-	-	90	

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

Sampling were not conducted at 1 points (total: 2 points) due to bad weather.

<sup>\*</sup> Data of other nuclides is under evaluation.

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

<sup>\* &</sup>quot;ND" indicates that the measurement result is below the detection limit.

I-131: Approx. 0.41Bq/L, Cs-134: Approx. 0.94Bq/L, Cs-137: Approx. 1.3Bq/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 < Offshore >

(Data summarized on February 7)

Place of Sampling (Place No.)	3km Offshore of Odaka Ward (T-14)  Upper Layer Lower Layer		15km Offshore of Fukushima Daiichi NPS (T-5)  Upper Layer Lower Layer				3km Offshore of Iwasawa Shore (T-11)  Upper Layer Lower Layer				Density Limit Specified by the Reactor Regulation (Bq/L)		
Time of Sampling	Jan 4, 20 9:08 Al		Jan 4, 20 9:08 A		Jan 5, 20 7:59 A		Jan 5, 20 7:59 A		Jan 5, 2 10:18 <i>A</i>		Jan 5, 2013 10:18 AM		(The density limit in the water outside the surrounding monitored
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 ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	areas is provided in section 6 of Appendix 2.)
Cs-134 (Approx. 2 years)	0.0046	0.00	0.0090	0.00	0.0051	0.00	0.0080	0.00	0.0085	0.00	0.0083	0.00	60
Cs-137 (Approx. 30 years)	0.0097	0.00	0.016	0.00	0.011	0.00	0.014	0.00	0.018	0.00	0.015	0.00	90

Place of Sampling (Place No.)											Density Limit Specified by the Reactor Regulation		
Time of Sampling	Upper Layer		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		(Bq/L) (The density limit in the water outside the
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 ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	surrounding monitored areas is provided in section 6 of Appendix 2.)
Cs-134 (Approx. 2 years)													60
Cs-137 (Approx. 30 years)													90

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

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

<sup>\*</sup> Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

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

## **Analysis Result of Pu in the Seawater**

### 1. Result of analysis:

(Unit: Bq/cm<sup>3</sup>)

Place of	Date of	Pu-238	Pu-239+Pu-240		
Sampling	Sampling	Fu-236	Fu-239+Fu-240		
Inside North Water					
Intake Canal of 1F's	August 13, 2012	N.D. [<1.7×10 <sup>-3</sup> ]	N.D. [<1.5×10 <sup>-3</sup> ]		
Units 1-4					

[] shows below the detection limit.

#### 2. Analytical Institution:

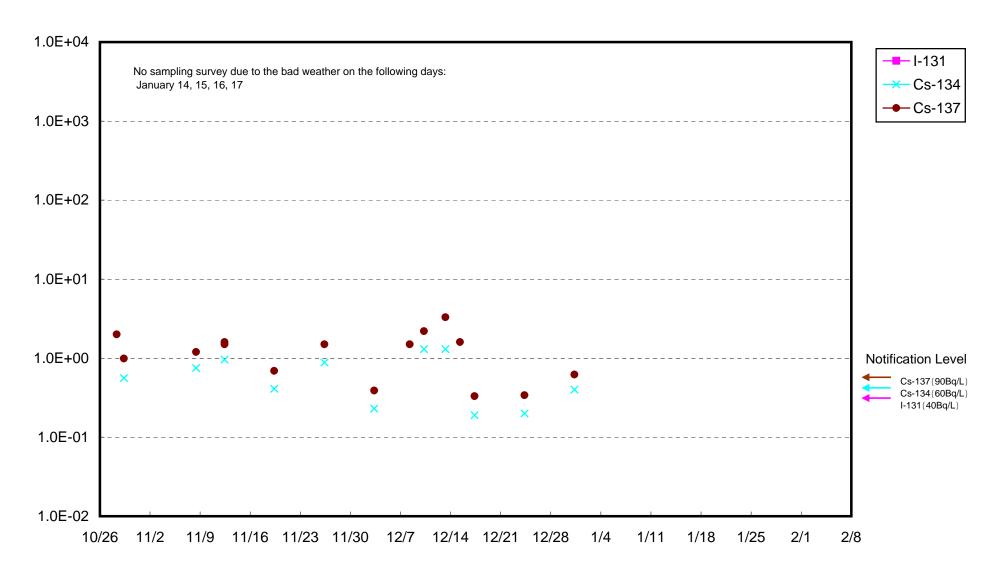
KAKEN Inc.

#### 3. Evaluation:

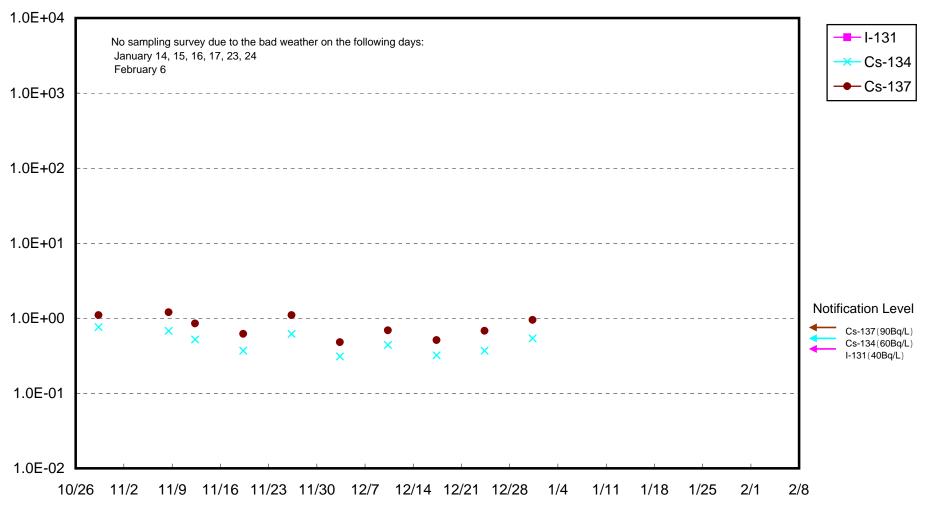
Pu-238 and Pu-239+Pu-240 were not detected in the sample collected this time.

End

### 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)



Sampling was conducted at around South Discharge Channel of Fukushima Daiichi NPS (appox. 330m south of Units 1-4 Discharge Channel) until November 25, 2012.

