

## Nuclide Analysis Results of the Radioactive Materials in the Air at Fukushima Nuclear Power Stations &lt; 1/2 &gt;

(Data summarized on March 28)

Place of Sampling	The West Gate of Fukushima Daiichi NPS						② Density Limit Specified by the Reactor Regulation (Bq/cm <sup>3</sup> ) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	
Time of Sampling	March 27, 2014 7:00 AM - 12:00 PM						
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-					1E-03
Cs-134 (Approx. 2 years)	ND	-					2E-03
Cs-137 (Approx. 30 years)	ND	-					3E-03

\* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

0.0E-0 is the same as  $0.0 \times 10^{-0}$

Data of other nuclides is under examination.

\* 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.

The detection limits at the west gate of Fukushima Daiichi NPS are as follows: Volatile: I-131: Approx. 7E-8Bq/cm<sup>3</sup>, Cs-134: Approx.2E-7Bq/cm<sup>3</sup>, Cs-137: Approx.2E-7Bq/cm<sup>3</sup> Particulate: I-131: Approx. 4E-8Bq/cm<sup>3</sup>, Cs-134: Approx.9E-8Bq/cm<sup>3</sup>, Cs-137: Approx.1E-7Bq/cm<sup>3</sup> As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

## Nuclide Analysis Results of the Radioactive Materials in the Air at Fukushima Nuclear Power Stations &lt; 2/2 &gt;

(Data summarized on March 28)

Place of Sampling	Unit 1 North Side Slope at Fukushima Daiichi NPS		Unit 1-2 West Side Slope at Fukushima Daiichi NPS		Unit 3-4 West Side Slope at Fukushima Daiichi NPS		② Density Limit Specified by the Reactor Regulation (Bq/cm <sup>3</sup> ) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
	Time of Sampling		Time of Sampling		Time of Sampling		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	
	I-131 (Approx. 8 days)	ND	-	ND	-	ND	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	2E-03
Cs-137 (Approx. 30 years)	ND	-	ND	-	ND	-	3E-03

\* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

O.OE—O is the same as O.O x 10<sup>-O</sup>

Data of other nuclides is under examination.

\* 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.

The detection limits are as follows. Volatile: I-131: Approx. 1E-6Bq/cm<sup>3</sup>, Cs-134: Approx.1E-6Bq/cm<sup>3</sup>, Cs-137: Approx.1E-6Bq/cm<sup>3</sup>

Particulate: I-131: Approx. 6E-7Bq/cm<sup>3</sup>, Cs-134: Approx.9E-7Bq/cm<sup>3</sup>, Cs-137: Approx.8E-7Bq/cm<sup>3</sup> 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 the Radioactive Materials in the Air at the Sea Side of Fukushima Nuclear Power Stations

(Data summarized on March 28)

Place of Sampling	Fukushima Daiichi NPS Sea Side Area near Unit 1-4						② Density Limit Specified by the Reactor Regulation (Bq/cm <sup>3</sup> ) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Time of Sampling	March 27, 2014 7:30 AM - 12:30 PM						
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	①Density of Sample (Bq/cm <sup>3</sup> )	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-					1E-03
Cs-134 (Approx. 2 years)	ND	-					2E-03
Cs-137 (Approx. 30 years)	ND	-					3E-03

\* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

O.OE—O is the same as O.O x 10<sup>-O</sup>

Data of other nuclides is under examination.

\* 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.

The detection limits are as follows. Volatile: I-131: Approx. 5E-8Bq/cm<sup>3</sup>, Cs-134: Approx.7E-8Bq/cm<sup>3</sup>, Cs-137: Approx.8E-8Bq/cm<sup>3</sup>

Particulate: I-131: Approx. 3E-8Bq/cm<sup>3</sup>, Cs-134: Approx.3E-8Bq/cm<sup>3</sup>, Cs-137: Approx.4E-8Bq/cm<sup>3</sup> As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

Analysis Result of Pu in the Air at Fukushima Daiichi Nuclear Power Station <1/2>

1. Measurement Result:

(Data summarized on March 28)

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

Place of Sampling	Type	Date of Sampling	Pu-238	Pu-239+Pu-240
1F, West Gate	Volatile	Aug 12, 2013	N.D. [ $3.8 \times 10^{-10}$ ]	N.D. [ $4.2 \times 10^{-10}$ ]
	Particulate		N.D. [ $4.9 \times 10^{-10}$ ]	N.D. [ $4.9 \times 10^{-10}$ ]

[ ] 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

Analysis Result of Pu in the Air at Fukushima Daiichi Nuclear Power Station <2/2>

1. Measurement Result:

(Data summarized on March 28)

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

Place of Sampling	Type	Date of Sampling	Pu-238	Pu-239+Pu-240
1F, West Gate	Volatile	Sep 16, 2013	N.D. [ $4.7 \times 10^{-10}$ ]	N.D. [ $4.7 \times 10^{-10}$ ]
	Particulate		N.D. [ $4.3 \times 10^{-10}$ ]	N.D. [ $4.7 \times 10^{-10}$ ]

[ ] shows below the detection limit.

2. Analytical Institution

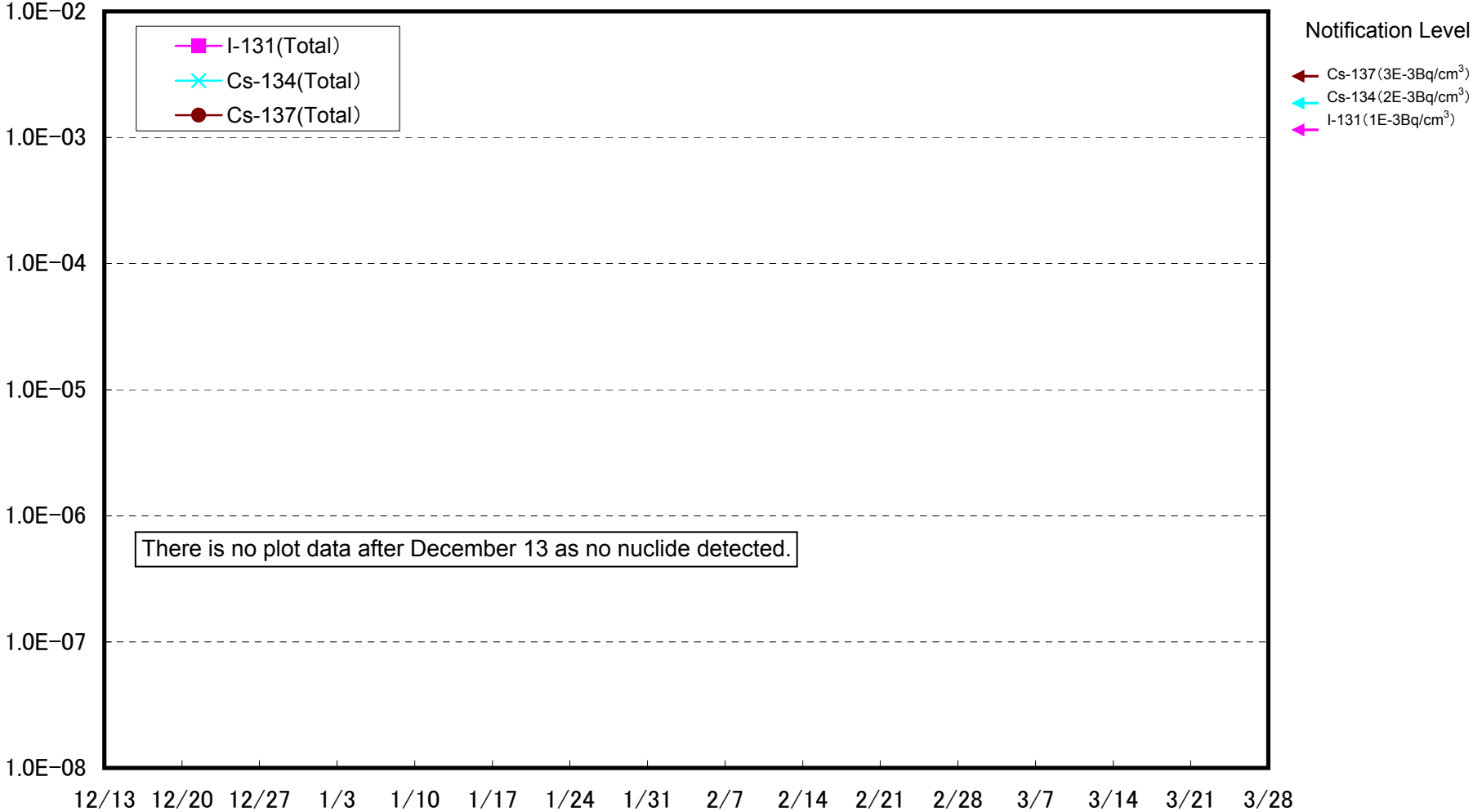
KAKEN Inc.

3. Evaluation:

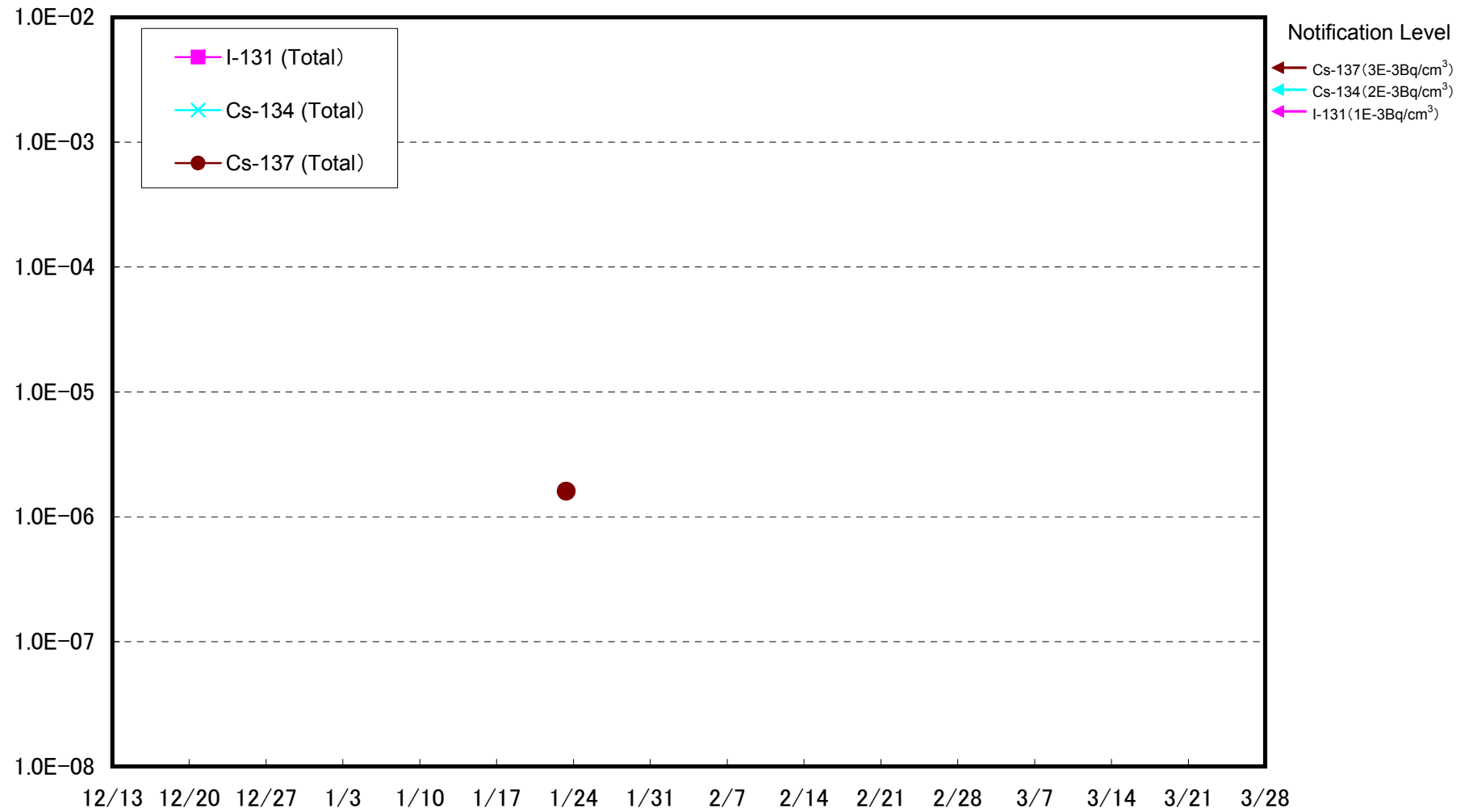
Pu-238 and Pu-239+Pu-240 were not detected in the sample collected this time.

End

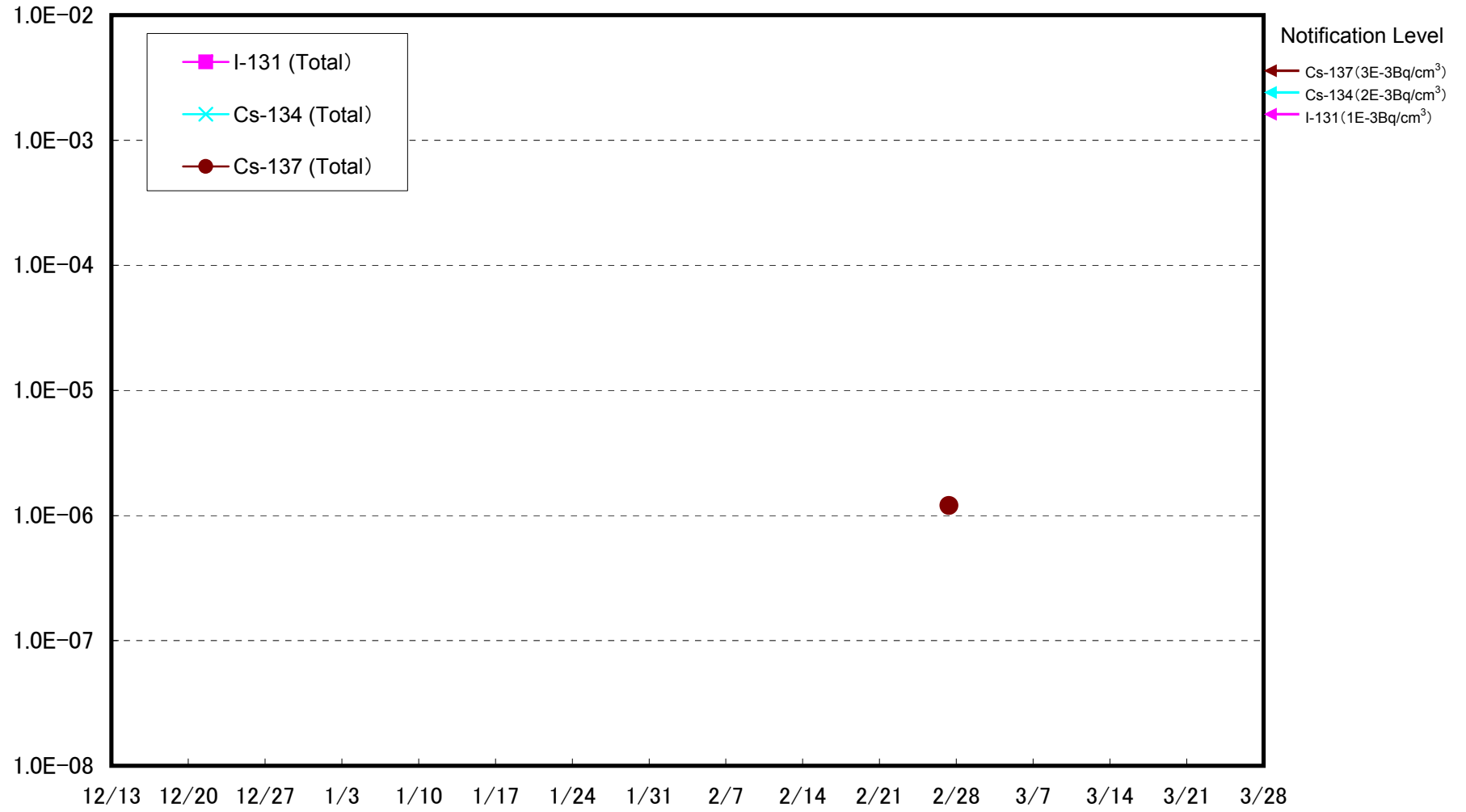
Dust Nuclides Analysis Result: The West Gate of Fukushima Daiichi Nuclear Power Station (Bq/cm<sup>3</sup>)



### Dust Nuclides Analysis Results at Unit 1 North Side Slope at Fukushima Daiichi NPS (Bq/cm<sup>3</sup>)

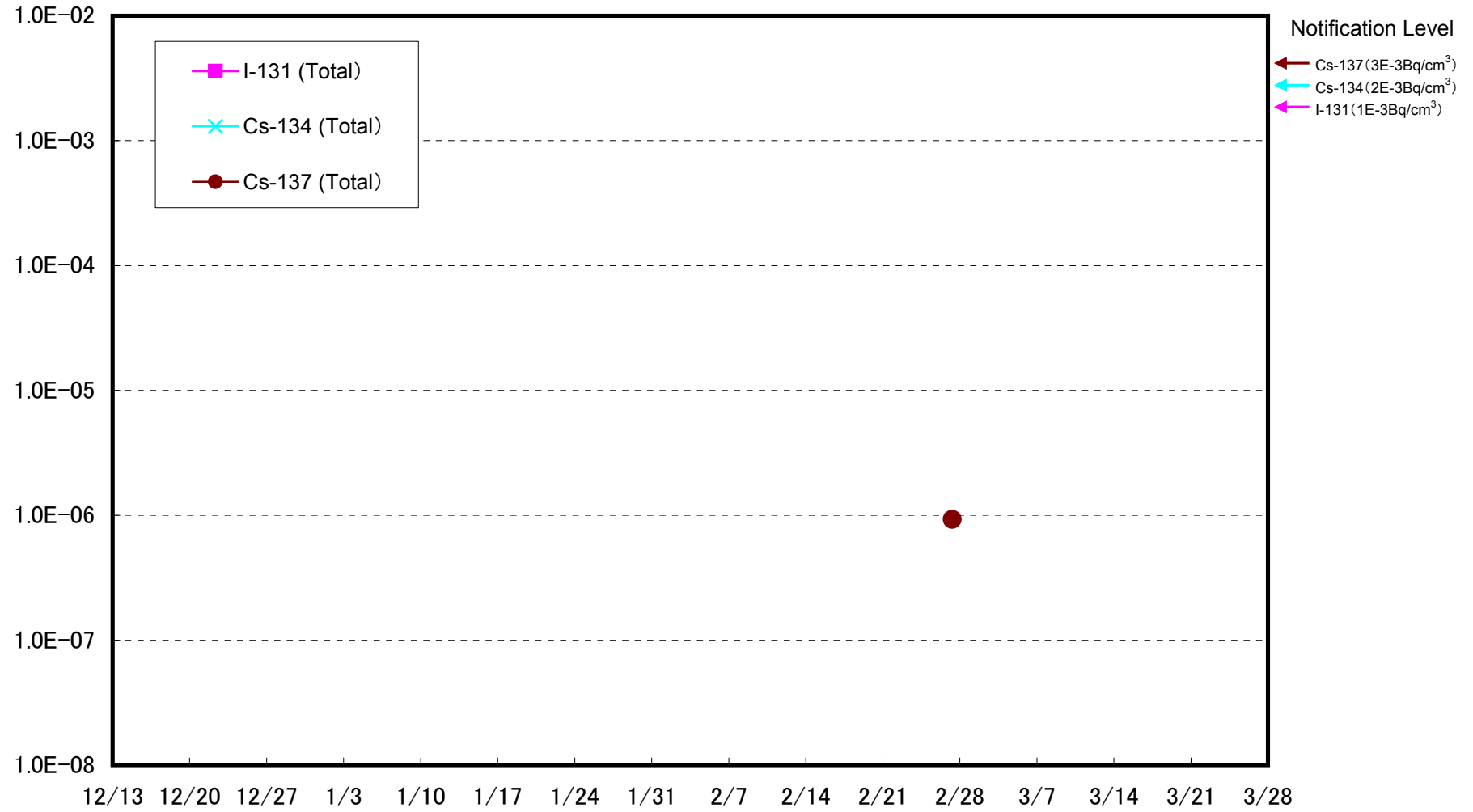


Fukushima Daiichi NPS Unit 1-2 West Side Slope  
Results of Dust Nuclides Analysis (Bq/cm<sup>3</sup>)





Fukushima Daiichi NPS Unit 3-4 West Side Slope  
Results of Dust Nuclides Analysis (Bq/cm<sup>3</sup>)



Fukushima Daiichi NPS Unit 1-4 Sea Side  
Results of Dust Nuclides Analysis (Bq/cm<sup>3</sup>)

