Nuclide Analysis Results of the Radioactive Materials in the Air at Fukushima Nuclear Power Stations < 1/2 >

Reference

(Data summarized on November 14)

Place of Sampling	The West Gate of Fukushima Daiichi NPS						② Density Limit Specified by the Reactor Regulation (Bq/cm^3) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Time of Sampling	November 13, 2014 7:00AM -12:00PM						
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm^3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm^3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm^3)	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^{-O}

Data of other nuclides is under examination.

* In the case of 2 nuclides or more, 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. 1E-7Bq/cm^3, Cs-134: Approx.1E-7Bq/cm^3, Cs-137: Approx.1E-7Bq/cm^3 Particulate: I-131: Approx. 5E-8Bq/cm^3, Cs-134: Approx.7E-8Bq/cm^3, Cs-137: Approx.1E-7Bq/cm^3 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 < 2/2 >

Reference

(Data summarized on November 14)

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^3) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Time of Sampling	November 13, 2014 7:56AM - 12:56PM		November 13, 2014 8:15AM-13:15PM		November 13, 2014 8:10AM - 13:10PM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm^3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm^3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm^3)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	1E-03
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^{-O}

Data of other nuclides is under examination.

* In the case of 2 nuclides or more, 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^3, Cs-134: Approx.1E-6Bq/cm^3, Cs-137: Approx.2E-6Bq/cm^3 Particulate: I-131: Approx. 7E-7Bq/cm^3, Cs-134: Approx.9E-7Bq/cm^3, Cs-137: Approx.8E-7Bq/cm^3 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

Reference

(Data summarized on November 14)

Place of Sampling	Fukushima Daiichi NPS Sea Side Area near Unit 1-4						② Density Limit Specified by the Reactor Regulation (Bq/cm^3) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Time of Sampling	November 13, 2014 8:03AM - 13:03PM						
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm^3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm^3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm^3)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-					1E-03
Cs-134 (Approx. 2 years)	7.1E-08	0.00					2E-03
Cs-137 (Approx. 30 years)	3.0E-07	0.00					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^{-O}

Data of other nuclides is under examination.

* In the case of 2 nuclides or more, 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. 6E-8Bq/cm^3, Cs-134: Approx.7E-8Bq/cm^3, Cs-137: Approx.7E-8Bq/cm^3
Particulate: I-131: Approx. 5E-8Bq/cm^3 As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

Fukushima Daiichi NPS Analysis result of Pu value in the air (1/2)

1.Reslt

(Data summarized on November 14)

（Unit：Bq/cm^3）

Place of Sampling	Sample type	Date of Sampling	Pu-238	Pu-239+Pu-240
The West Gate of Fukushima Daiichi NPS	Volatile	May 12,2014	N.D. [5.4×10^{-10}]	N.D. [4.6×10^{-10}]
	Particulate		N.D. [6.4×10^{-10}]	N.D. [5.4×10^{-10}]

[ ] shows detection limit value

2.Analyzed by : Kaken co., Ltd

3 Evaluation :

There were no Pu-238,Pu-239+Pu-240 found in the sample measured this time.

Fukushima Daiichi NPS Analysis result of Pu value in the air (2/2)

1.Result:

(Data summarized on November 14)

（Unit：Bq/cm^3）

Place of Sampling	Sampel type	Date of Sampling	Pu-238	Pu-239+Pu-240
The West Gate of Fukushima Daiichi NPS	Volatile	June 9,2014	N.D. [5.1×10^{-10}]	N.D. [4.3×10^{-10}]
	Particulate		N.D. [4.3×10^{-10}]	N.D. [3.6×10^{-10}]

[ ] shows detection limit value

2.Analyzed by : Kaken co., Ltd

3.Evaluation

There were no Pu-238,Pu-239+Pu-240 found in the sample measured this time.

Fukushima Daiichi NPS: Analysis result of Sr in the air (1/3)

1.Result

(Data summarized on November 14)

（Unit：Bq/cm^3）

Place of Sampling	Sample type	Date of Sampling	Sr-89	Sr-90
The West Gate of Fukushima Daiichi NPS	Volatile	Apr 14,2014	N.D.	N.D.
	Particulate		N.D.	N.D.

2.Analyzed by : Kaken Co.,Ltd.

3.Evaluation

There were no Sr-89,Sr90 found in the smaple measured this time

Fukushima Daiichi NPS: Analysis result of Sr in the air (2/3)

1.Result

(Data summarized on November 14)

（Unit：Bq/cm^3）

Place of Sampling	Sample type	Date of Sampling	Sr-89	Sr-90
The West Gate of Fukushima Daiichi NPS	Volatile	May 12,2014	N.D.	N.D.
	Particulate		N.D.	N.D.

2.Analyzed by : Kaken Co.,Ltd

3.Evaluation

There were no Sr-89,Sr90 found in the smaple measured this time

Fukushima Daiichi NPS: Analysis result of Sr in the air (3/3)

1.Result

(Data summarized on November 14)

（Unit：Bq/cm^3）

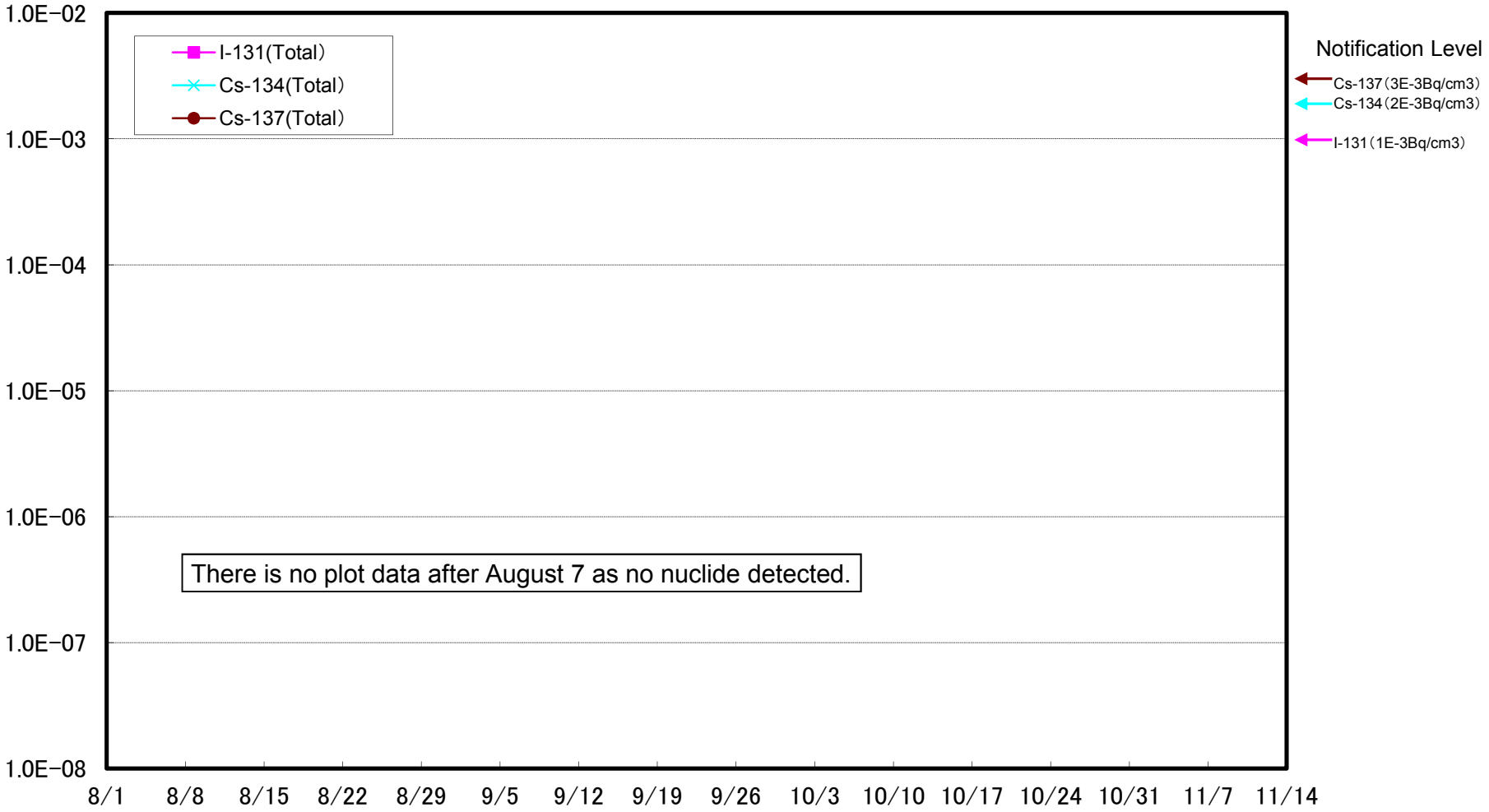
Place of Sampling	Sample type	Date of Sampling	Sr-89	Sr-90
The West Gate of Fukushima Daiichi NPS	Volatile	June 9, 2014	N.D.	N.D.
	Particulate		N.D.	N.D.

2.Analyzed by : Kaken Co.,Ltd

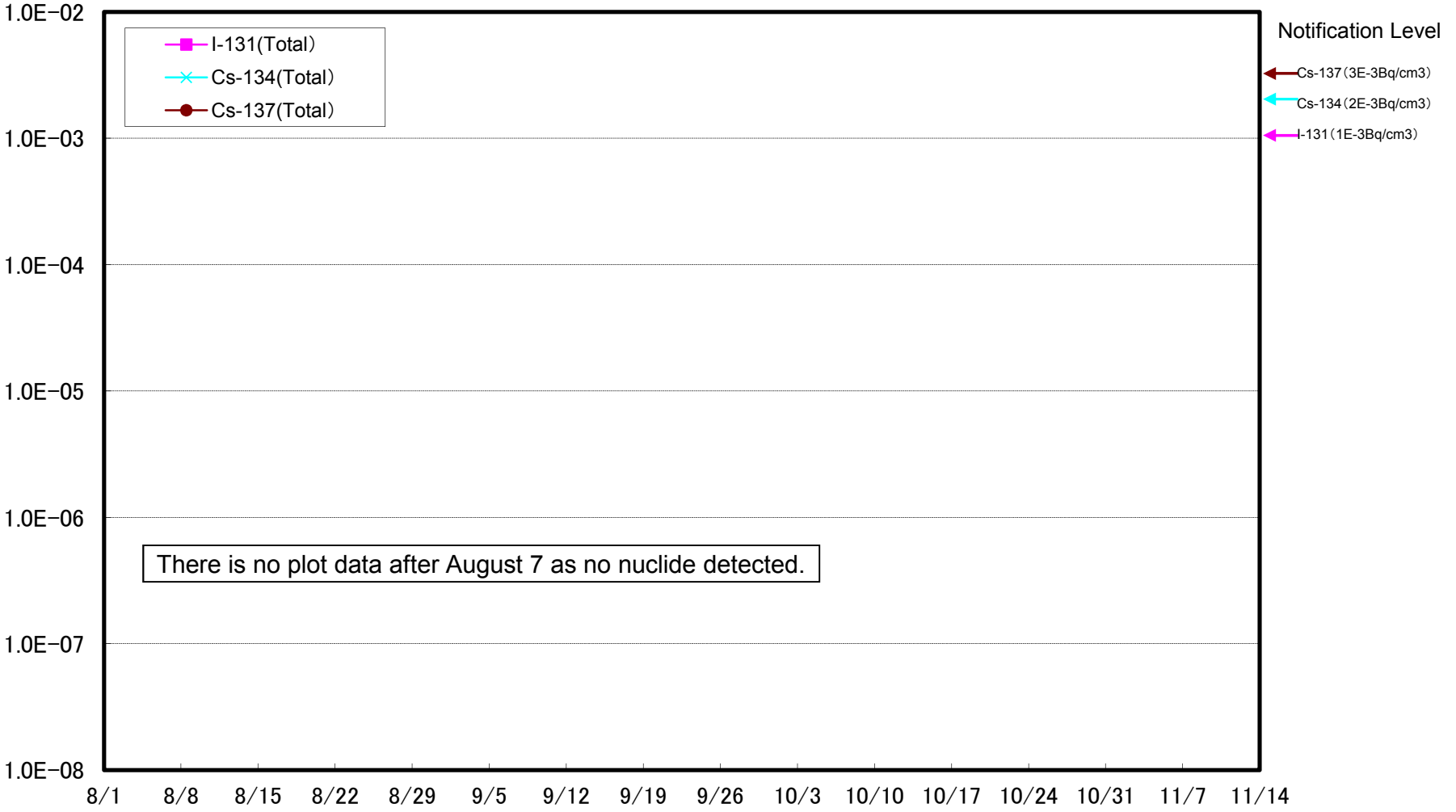
3.Evaluation

There were no Sr-89,Sr90 found in the smaple measured this time

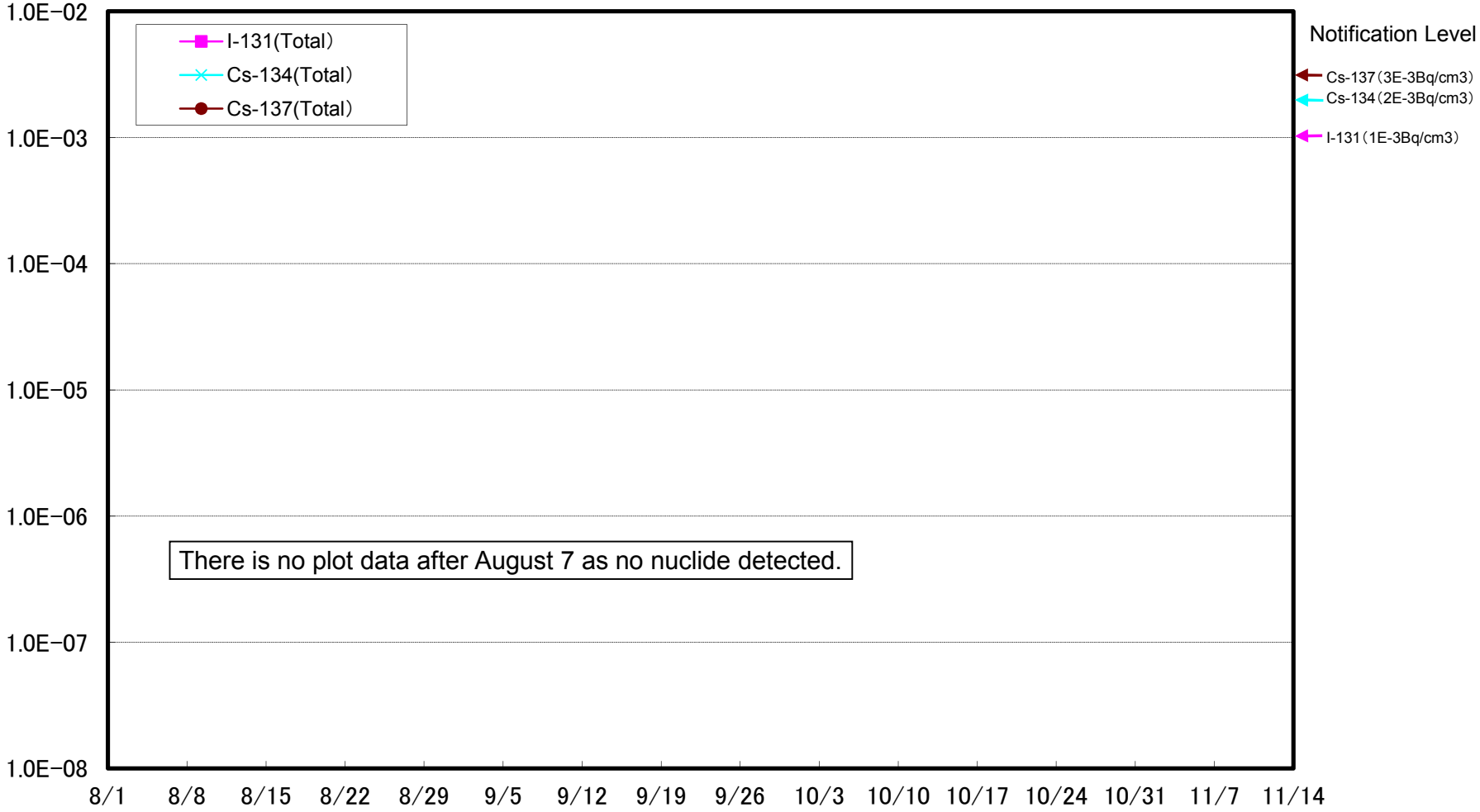
Dust Nuclides Analysis Results at Unit 1 North Side Slope at Fukushima Daiichi NPS (Bq/cm^3)



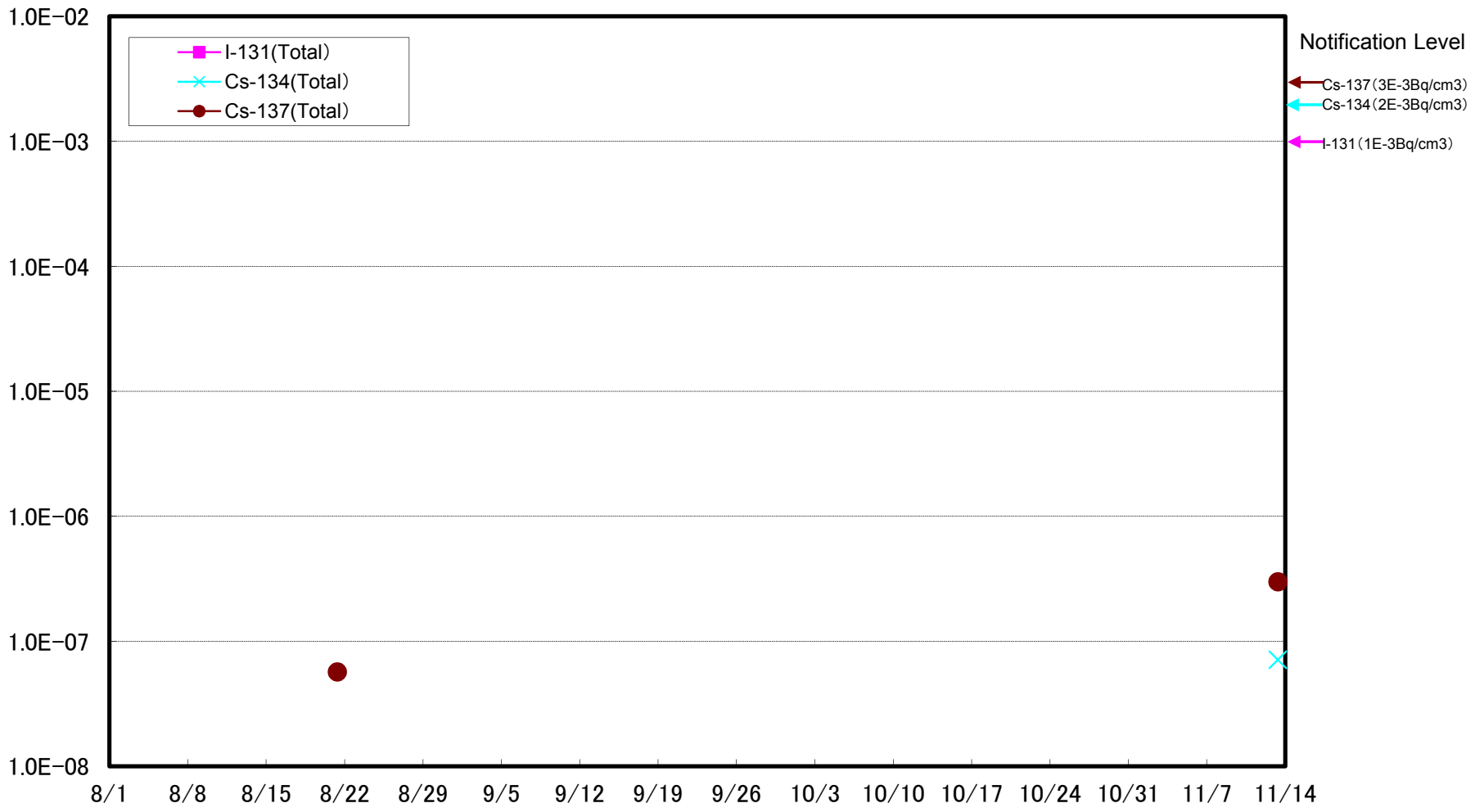
Fukushima Daiichi NPS Unit 1-2 West Side Slope
Results of Dust Nuclides Analysis (Bq/cm^3)



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



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



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