

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

(Data summarized on December 15)

Place of Sampling	The West Gate of Fukushima Daiichi NPS		MP-1 of Fukushima Daini NPS (Reference)				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)
	December 14, 2012 7:00 AM - 12:00 PM		December 14, 2012 9:35 AM - 9:45 AM				
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	-			1E-03
Cs-134 (Approx. 2 years)	ND	-	ND	-			2E-03
Cs-137 (Approx. 30 years)	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  $O.O \times 10^{-O}$

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. 9E-8Bq/cm<sup>3</sup>, Cs-134: Approx.2E-7Bq/cm<sup>3</sup>, Cs-137: Approx.3E-7Bq/cm<sup>3</sup> Particulate: I-131: Approx. 5E-8Bq/cm<sup>3</sup>, Cs-134: Approx.1E-7Bq/cm<sup>3</sup>, Cs-137: Approx.2E-7Bq/cm<sup>3</sup> The detection limits at MP-1 of Fukushima Daini MPS 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.2E-6Bq/cm<sup>3</sup> Particulate: I-131: Approx. 8E-7Bq/cm<sup>3</sup>, Cs-134: Approx.1E-6Bq/cm<sup>3</sup>, Cs-137: Approx.1E-6Bq/cm<sup>3</sup>

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

(Data summarized on December 15)

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  $O.O \times 10^{-O}$

Data of other nuclides is under examination.

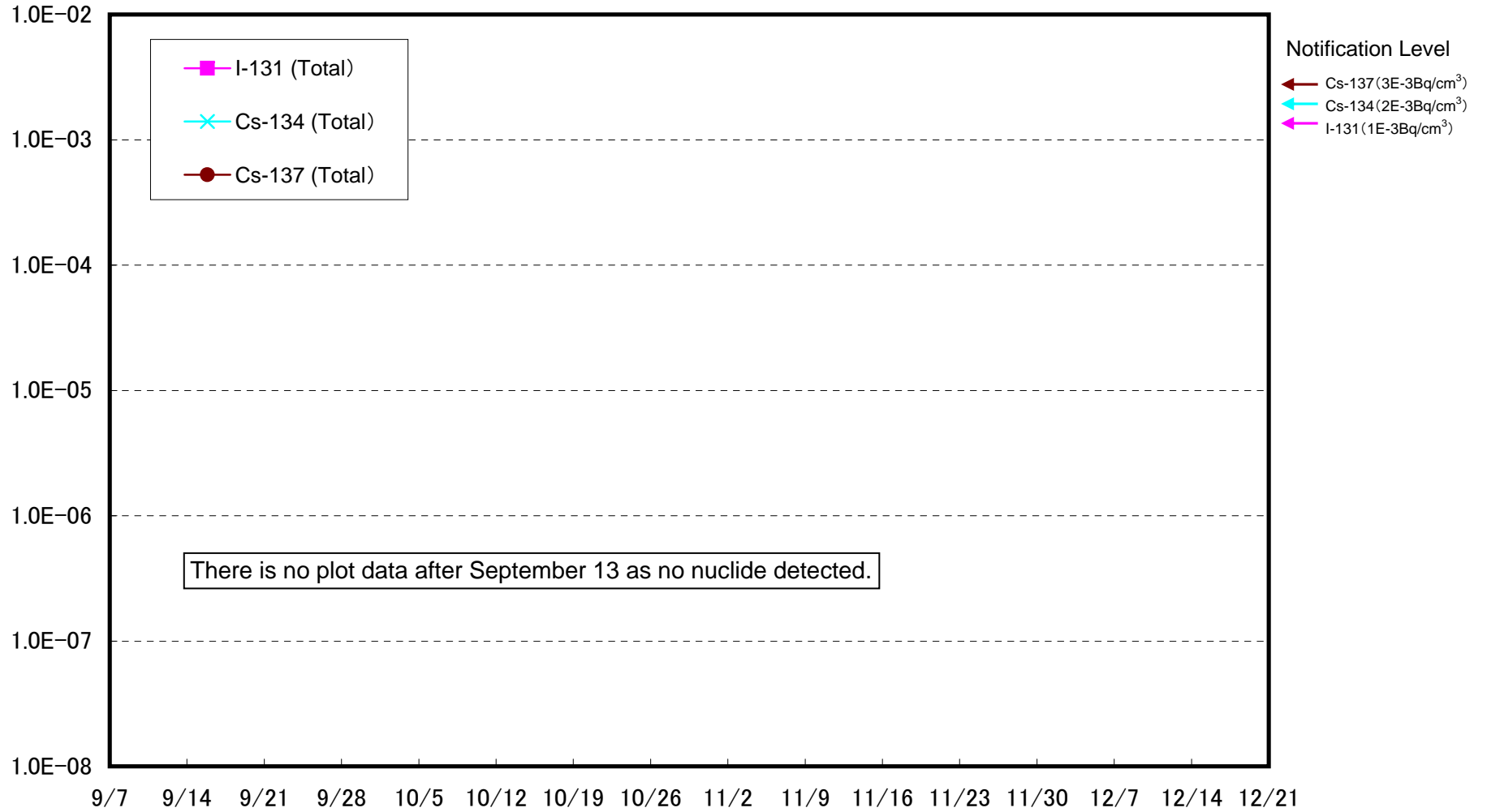
\* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

\* "ND" indicates that the measurement result is below the detection limit.

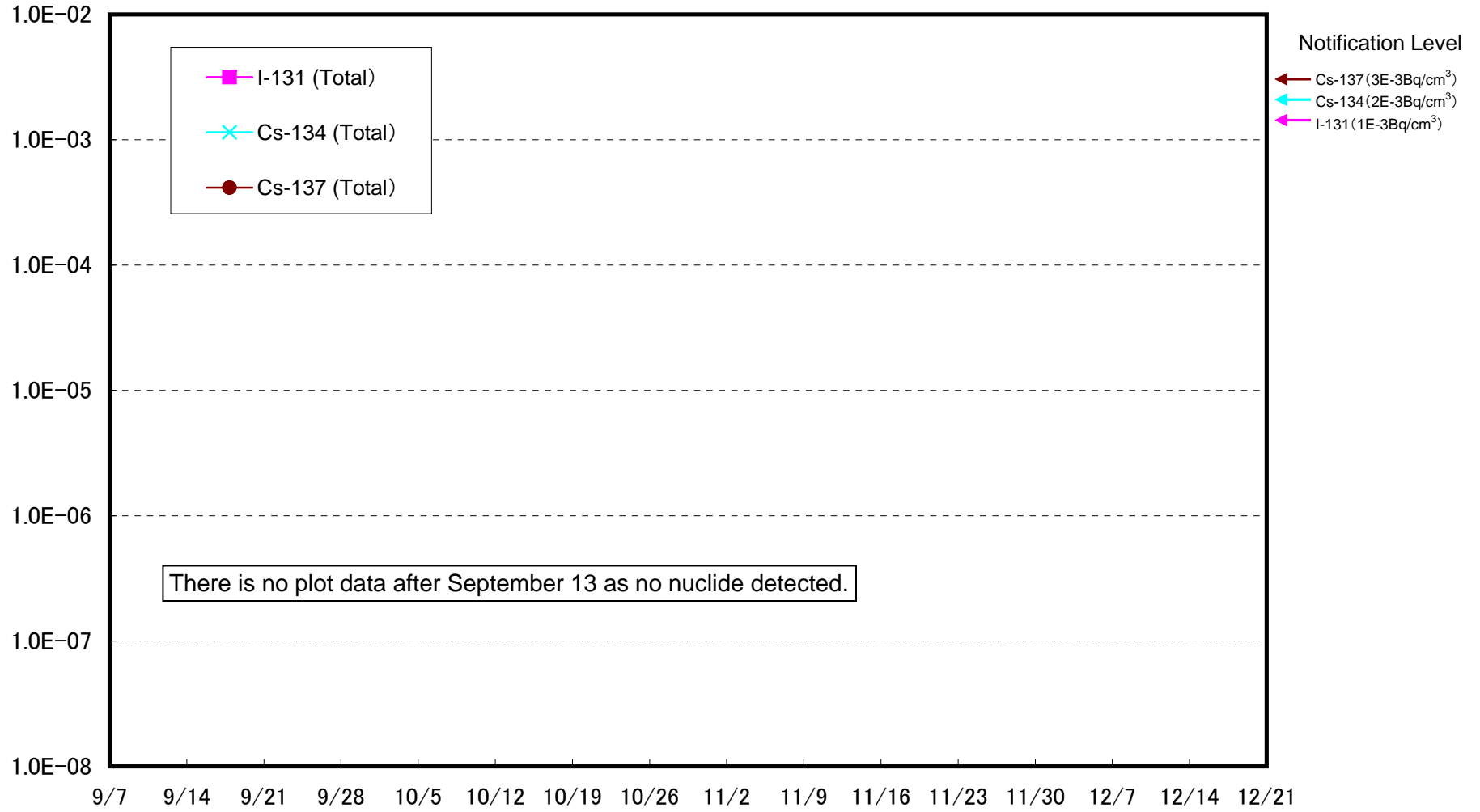
The detection limits are as follows. Volatile: I-131: Approx. 1E-6Bq/cm<sup>3</sup>, Cs-134: Approx.3E-6Bq/cm<sup>3</sup>, Cs-137: Approx.4E-6Bq/cm<sup>3</sup>

Particulate: I-131: Approx. 8E-7Bq/cm<sup>3</sup>, Cs-134: Approx.2E-6Bq/cm<sup>3</sup>, Cs-137: Approx.2E-6Bq/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.

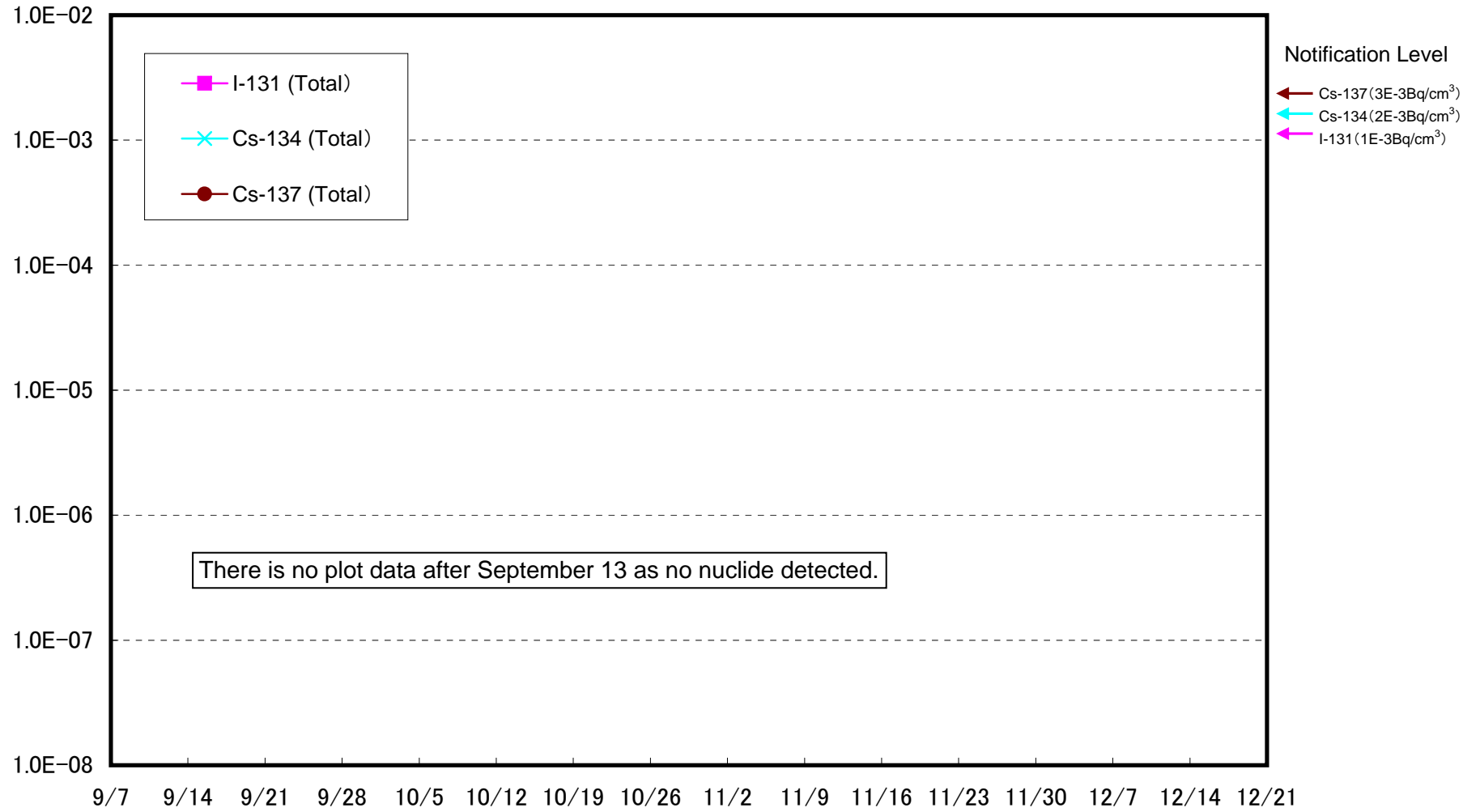
### Dust Nuclides Analysis Results at Unit 1 North Side Slope at Fukushima Daiichi NPS (Bq/cm<sup>3</sup>)



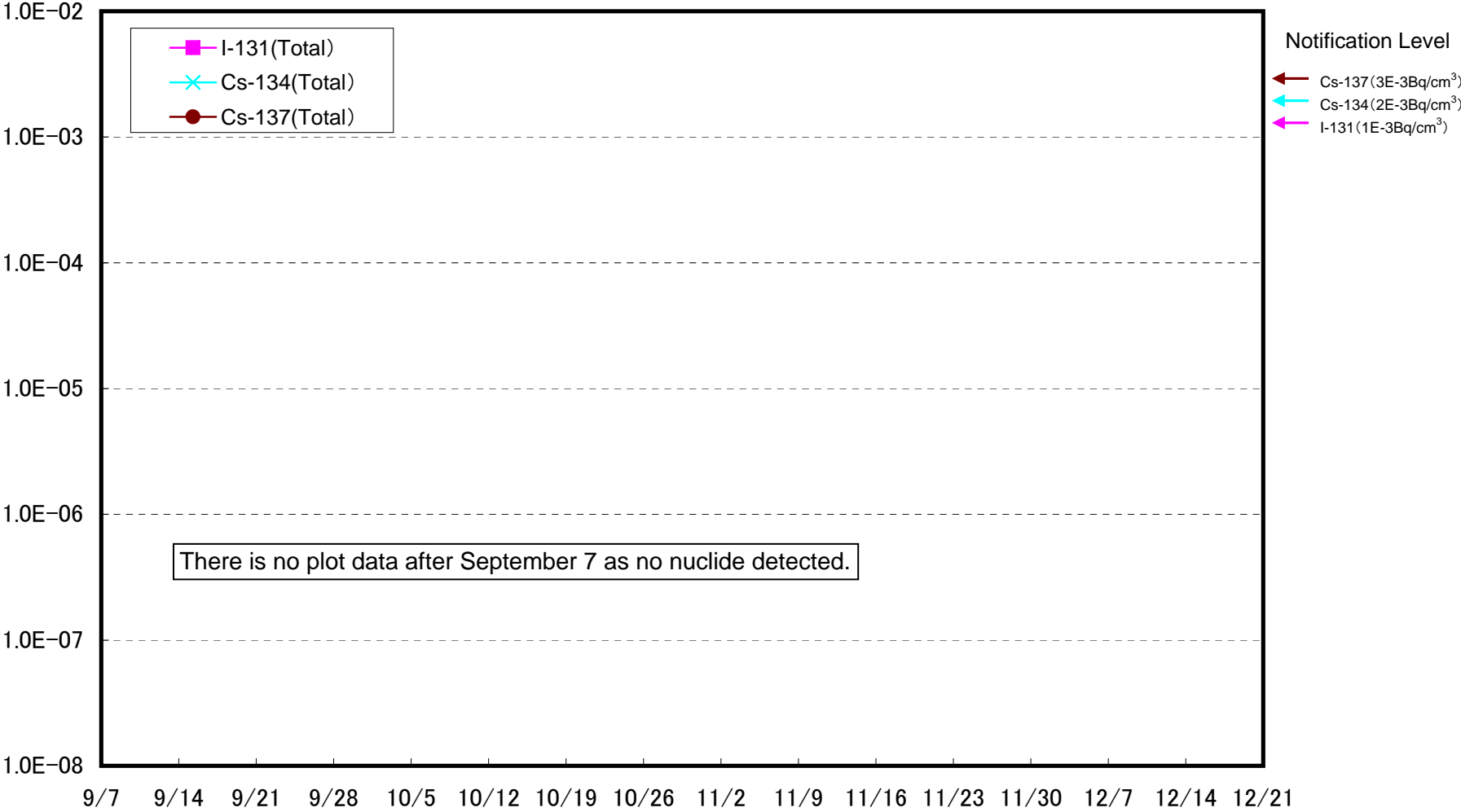
Fukushima Daiichi NPS Unit 1-2 West Side Slope  
Results of Dust Nuclides Analysis (Bq/cm<sup>3</sup>)



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



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



(Reference) Dust Nuclides Analysis Results of MP-1 at Fukushima Daini NPS (Bq/cm<sup>3</sup>)

