

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

Reference

(Data summarized on February 9)

Place of Sampling	West Gate of Fukushima Daiichi NPS		MP-1 of Fukushima Daini (Reference)		/		Density limit by the announcement of Reactor Regulation ( Bq/cm <sup>3</sup> ) (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)
	Time of Sampling	February 8, 2012 7:00 ~ 12:00	February 8, 2012 9:12 ~ 9:22	Time of Sampling	density of sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
Detected Nuclides (Half-life)	density of sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	density of sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	density of sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (about 8 days)	ND	-	ND	-	/	/	1E-03
Cs-134 (about 2 years)	ND	-	ND	-	/	/	2E-03
Cs-137 (about 30 years)	ND	-	ND	-	/	/	3E-03

\* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

O.OE - O means O.O x 10-O

Data of other nuclides are under examination.

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

\* "ND" means the sampled data is below measurable limit.

Detection limits of 3 nuclides on the West Gate of Fukushima Daiichi are as follows:

Volatile: I-131: approx. 1E-7Bq/cm<sup>3</sup>, Cs-134: approx. 3E-7Bq/cm<sup>3</sup>, Cs-137: approx. 4E-7Bq/cm<sup>3</sup>

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

Detection limits of 3 nuclides on MP-1 of Fukushima Daini are as follows:

Volatile: I-131: approx. 2E-6Bq/cm<sup>3</sup>, Cs-134: approx. 3E-6Bq/cm<sup>3</sup>, Cs-137: approx. 3E-6Bq/cm<sup>3</sup>

Particulate: 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>

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

Reference

(Data summarized on February 9)

Place of Sampling	Fukushima Daiichi MP-1		Fukushima Daiichi MP-3		Fukushima Daiichi MP-8		Density limit by the announcement of Reactor Regulation ( Bq/cm <sup>3</sup> ) (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2)
Time of Sampling	February 8, 2012 9:22 ~ 14:22		February 8, 2012 8:57 ~ 13:57		February 8, 2012 9:07 ~ 14:07		
Detected Nuclides (Half-life)	density of sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	density of sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	density of sample ( Bq/cm <sup>3</sup> )	Scaling Factor ( / )	
I-131 (about 8 days)	ND	-	ND	-	ND	-	1E-03
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	2E-03
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	3E-03

\* The value of radioactivity density is the sum of the value of volatile nuclide's density and the value of particulate nuclide's density.

O.OE - O means O.O x 10-O

Data of other nuclides are under examination.

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

\* "ND" means the sampled data is below measurable limit.

The followings show the detection limits.

Volatile: I-131: approx. 2E-7Bq/cm<sup>3</sup>, Cs-134: approx. 4E-7Bq/cm<sup>3</sup>, Cs-137: approx. 5E-7Bq/cm<sup>3</sup>

Particulate: I-131: approx. 1E-7Bq/cm<sup>3</sup>, Cs-134: approx. 2E-7Bq/cm<sup>3</sup>, Cs-137: approx. 3E-7Bq/cm<sup>3</sup>

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

Fukushima Daiichi Nuclear Power Station: the result of  
the Sr analysis on radioactive materials in the air

1. Sampled at : West gate of Fukushima Daiichi Nuclear Power Station
2. Analyzed by: Japan Chemical Analysis Center or JCAC
3. Result of Measurement:

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

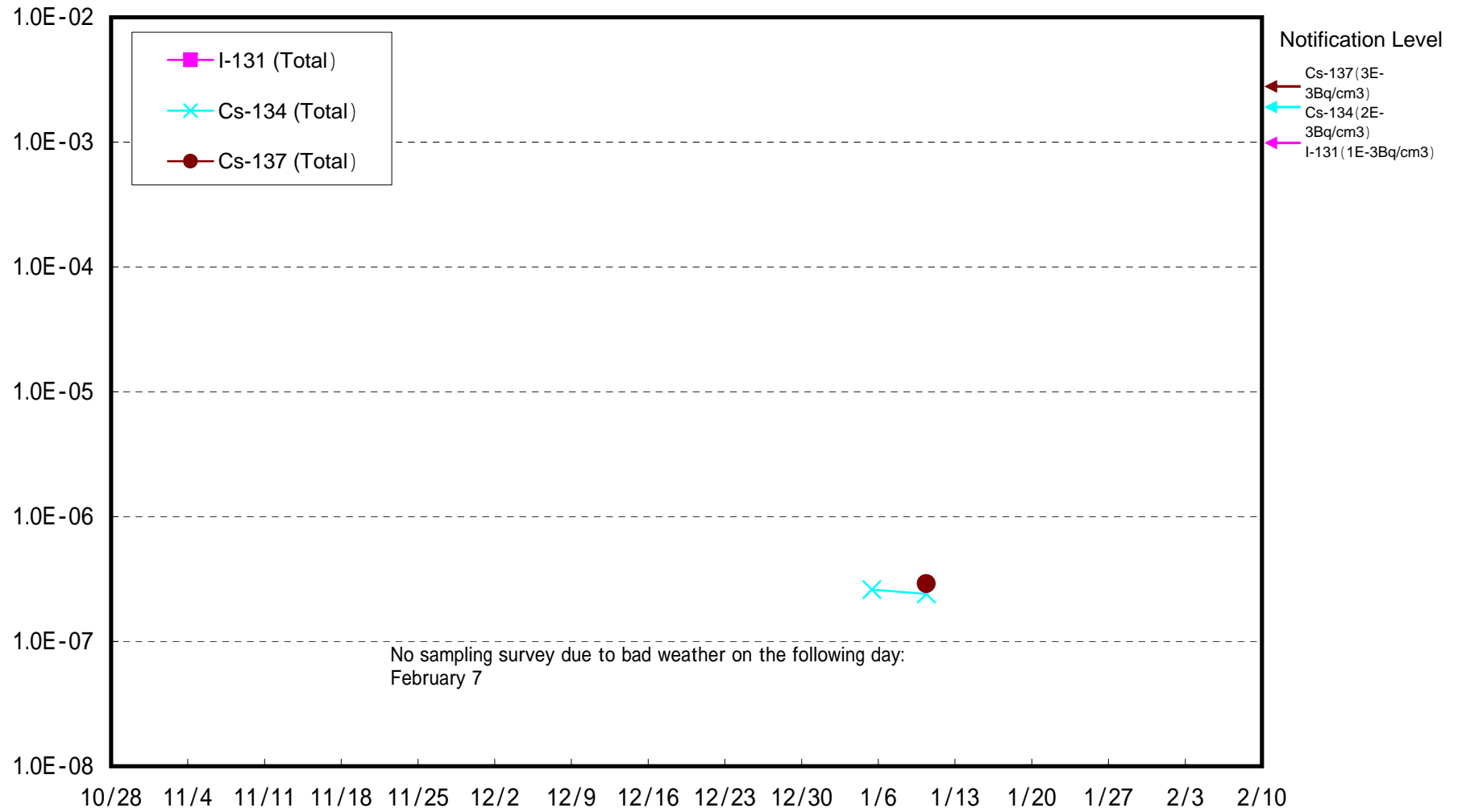
Type of Samples	Date of sampling	Sr-89	Sr-90
Volatile	1/16	N.D.	N.D.
Particulate		N.D.	N.D.

4. Evaluation

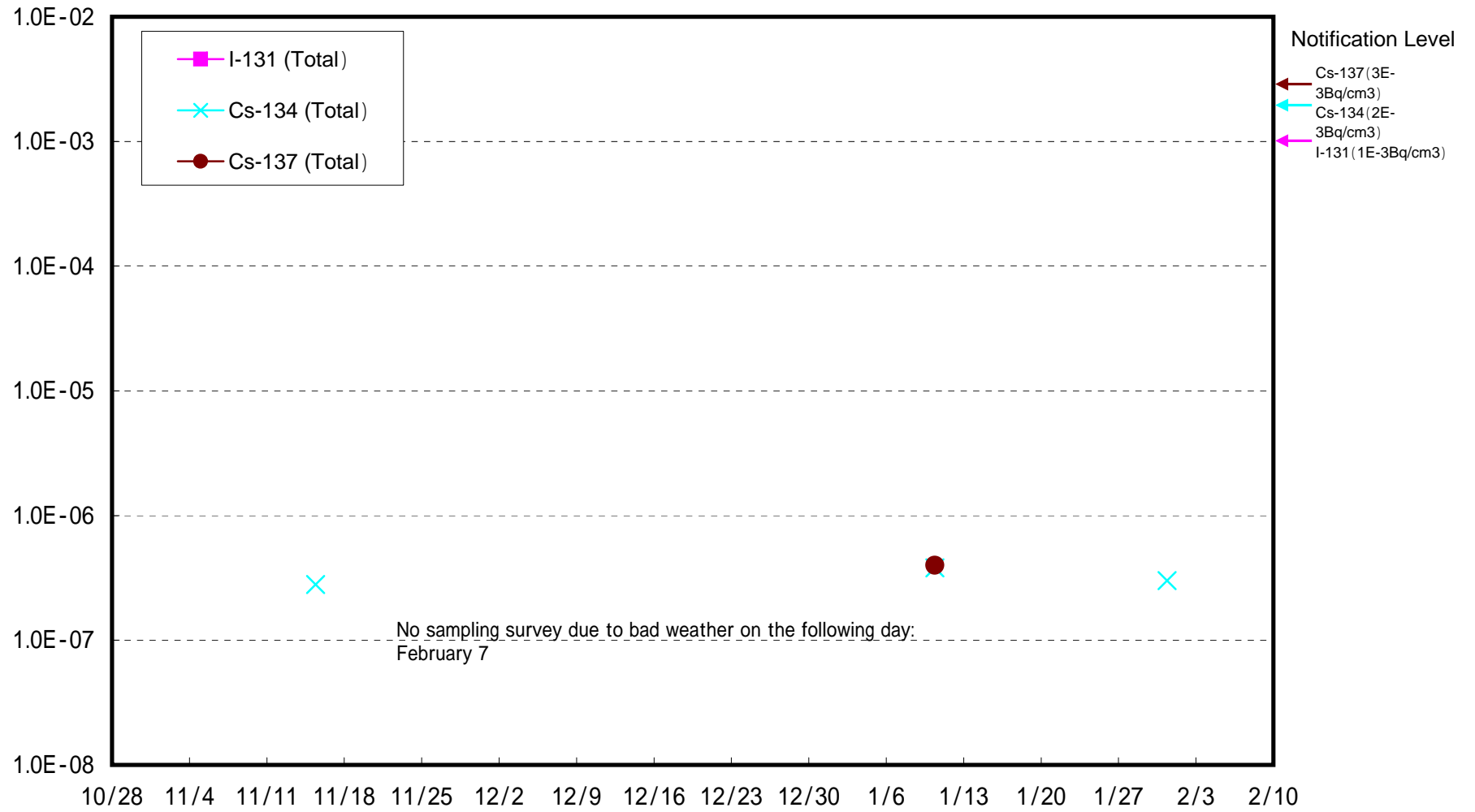
Sr-89,Sr-90 were not detected from the samples measured this time.

End

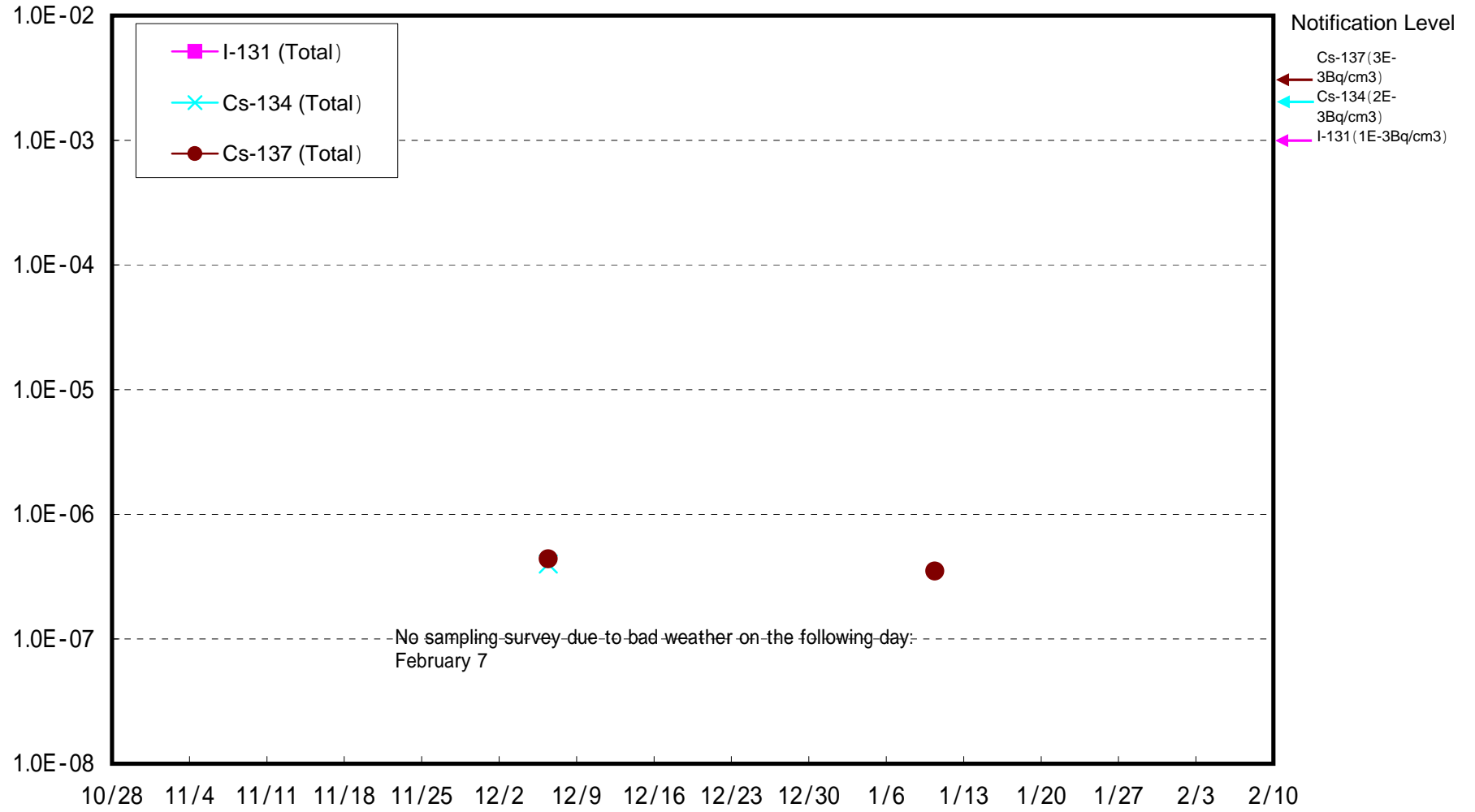
### Fukushima Daiichi MP-1 Results of dust nuclides analyses (Bq/cm<sup>3</sup>)



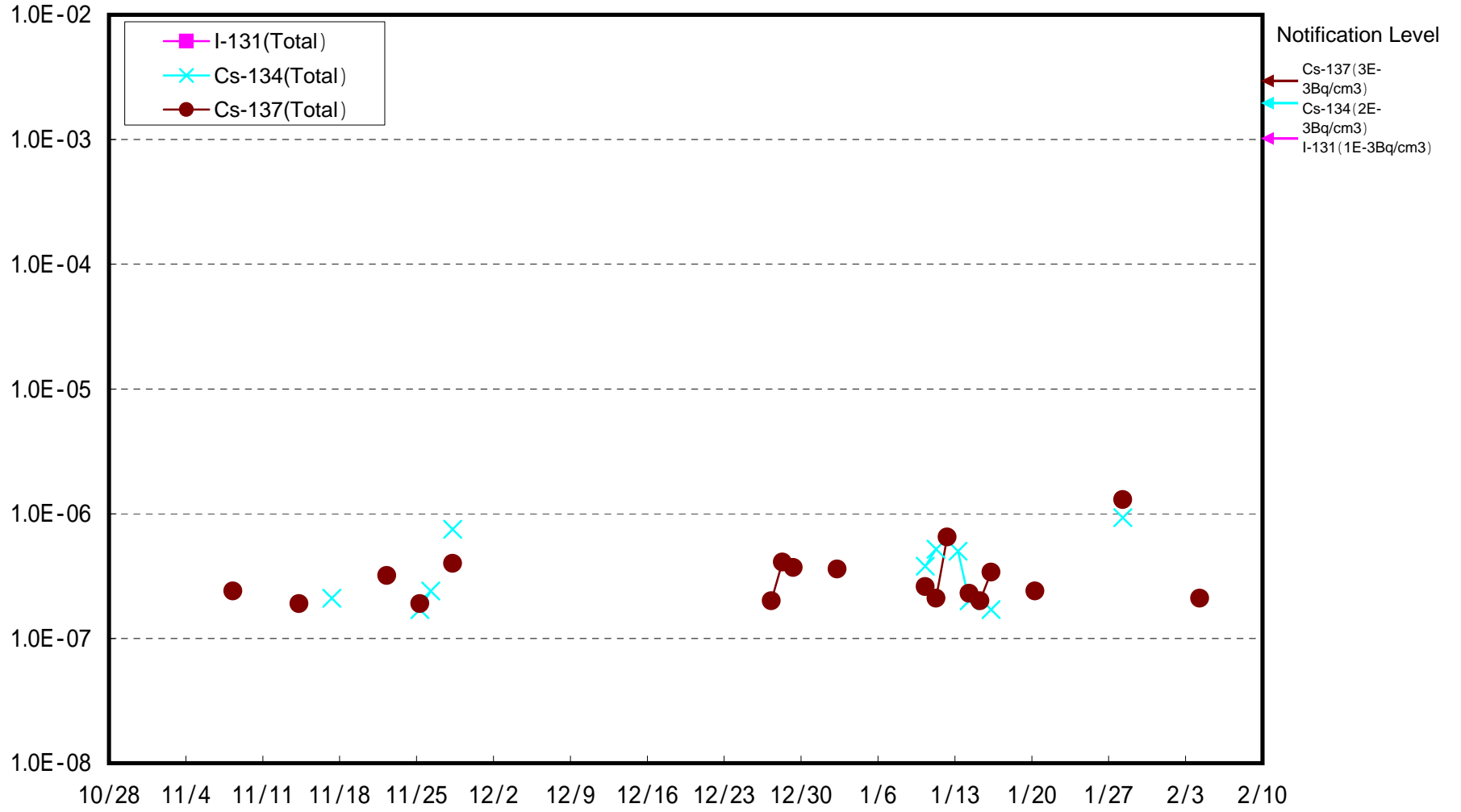
Fukushima Daiichi MP-3 Results of dust nuclides analyses (Bq/cm3)



Fukushima Daiichi MP-8 Results of dust nuclides analyses (Bq/cm<sup>3</sup>)



West Gate of Fukushima Daiichi Nuclear Power Station  
Results of Dust Nuclide Analysis (Bq/cm<sup>3</sup>)



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

