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

Reference

(Data summarized on March 14)

Place of Sampling	West Gate of Fukushima Daiichi NPS		MP-1 of Fukushima Daini (Reference)				Density limit by the announcement of Reactor Regulation (Bq/cm3) (Density limit in the air to which radiation workers
Time of Sampling	March 13, 2012 7:00 ~ 12:00		March 13, 2012 9:14 ~ 9:24				
Detected Nuclides (Half-life)	density of sample (Bq/cm3)	Scaling Factor (/)	density of sample (Bq/cm3)	Scaling Factor (/)	density of sample (Bq/cm3)	Scaling Factor (/)	breathe in the section 4 of the appendix 2)
I-131 (about 8 days)	ND	-	ND	-			1E-03
Cs-134 (about 2 years)	2.6E-07	0.00	ND				2E-03
Cs-137 (about 30 years)	2.6E-07	0.00	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.

Detection limits at the West Gate of Fukushima Daiichi are as follows:

Volatile: I-131: approx. 1E-7Bq/cm3, Cs-134: approx. 3E-7Bq/cm3, Cs-137: approx. 3E-7Bq/cm3

Detection limits at MP-1 of Fukushima Daini are as follows:

Volatile: I-131: approx. 2E-6Bq/cm3, Cs-134: approx. 3E-6Bq/cm3, Cs-137: approx. 3E-6Bq/cm3 134: approx. 2E-6Bq/cm3, Cs-137: approx. 1E-6Bq/cm3

Particulate: I-131: approx. 7E-8Bq/cm3

Particulate: I-131: approx. 9E-7Bq/cm3, Cs-

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

^{* &}quot;ND" means the sampled data is below measurable limit.

Reference

(Data summarized on March 14)

Place of Sampling	Fukushima Daiichi MP-1		Fukushima Daiichi MP-3		Fukushima Daiichi MP-8		Density limit by the announcement of Reactor Regulation (Bq/cm3) (Density limit in the air to which radiation workers
Time of Sampling	March 13, 2012 9:08 ~ 14:08		March 13, 2012 8:40 ~ 13:40		March 13, 2012 8:53 ~ 13:53		
Detected Nuclides (Half-life)	density of sample (Bq/cm3)	Scaling Factor (/)	density of sample (Bq/cm3)	Scaling Factor (/)	density of sample (Bq/cm3)	Scaling Factor (/)	breathe in the section 4 of the appendix 2)
I-131 (about 8 days)	ND	-	ND	-	ND	1	1E-03
Cs-134 (about 2 years)	ND	-	ND	1	ND	1	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.

The followings show the detection limits. Volatile: I-131: approx. 2E-7Bq/cm3, Cs-134: approx. 4E-7Bq/cm3, Cs-137: approx. 5E-7Bq/cm3 Particulate: I-131: approx. 1E-7Bq/cm3, Cs-134: approx. 2E-7Bq/cm3, Cs-137: approx. 3E-7Bq/cm3

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

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

^{* &}quot;ND" means the sampled data is below measurable limit.

Result of the Pu analysis in the atmosphere at Fukushima Daiichi Nuclear Power Station

- 1. Sampling location: West gate, Fukushima Daiichi NPS
- 2. Institution conducting the analysis: Japan Chemical Analysis Center
- 3. Result of the analysis:

(Unit: Bq/cm³)

Samples	Date of sampling	Pu-238	Pu-239+Pu-240	
Volatile	Fobruary 27	N.D. [<6.5×10 ⁻¹⁰]	N.D. [<6.5×10 ⁻¹⁰]	
Particulate	February 27	N.D. [<8.4×10 ⁻¹⁰]	N.D. [<9.2×10 ⁻¹⁰]	

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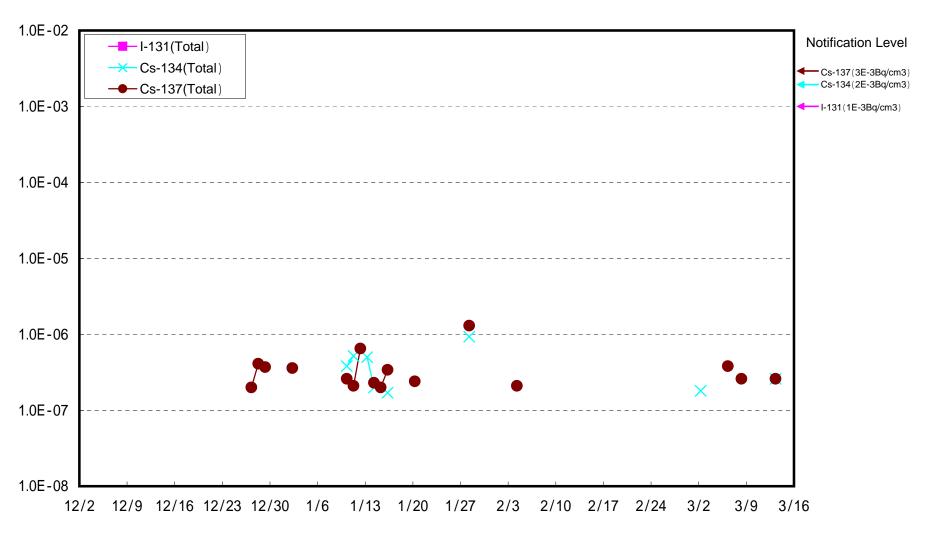
]indicates the detection limit

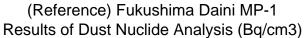
4. Evaluation:

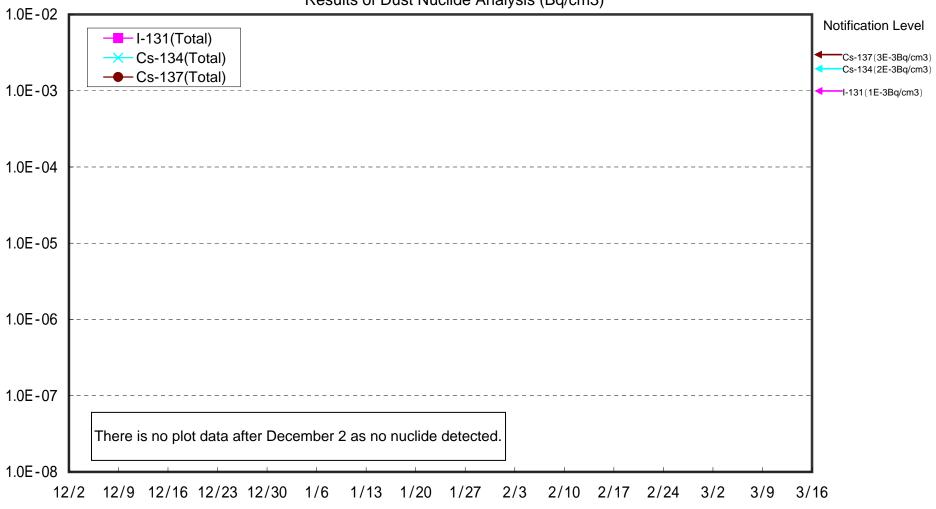
No Pu-238 and Pu-239+Pu-240 were detected from samples this time.

End

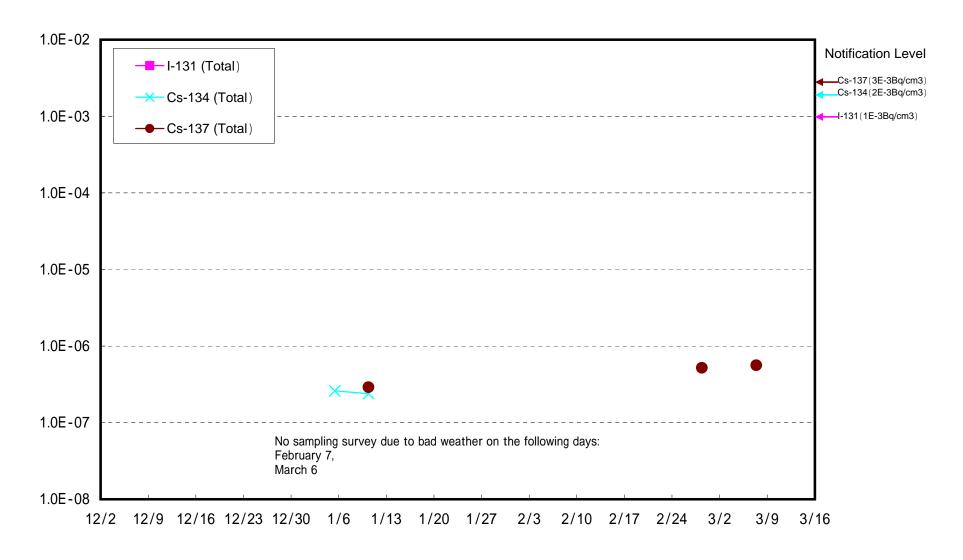
West Gate of Fukushima Daiichi Nuclear Power Station Results of Dust Nuclide Analysis (Bq/cm3)



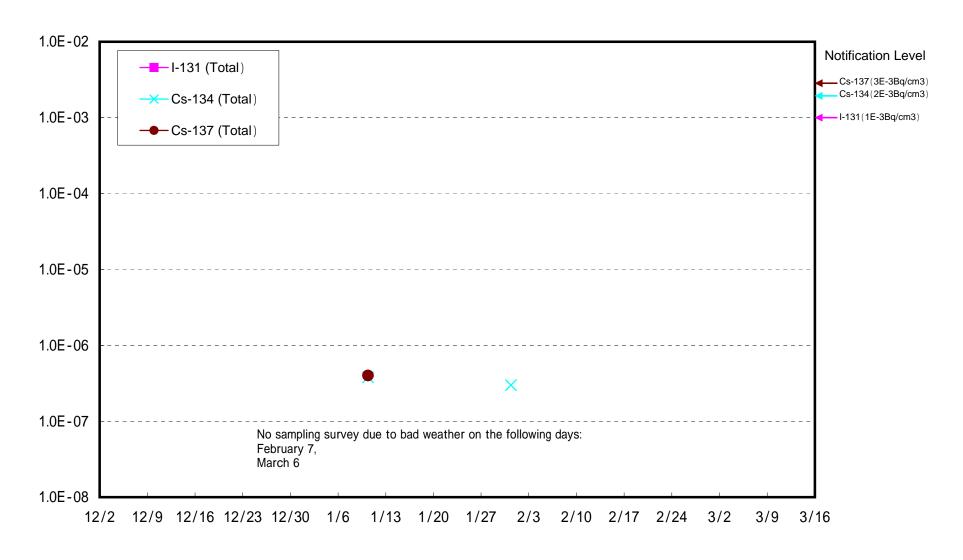




Fukushima Daiichi MP-1 Results of dust nuclides analyses (Bq/cm3)



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



Fukushima Daiichi MP-8 Results of dust nuclides analyses (Bq/cm3)

