Reference

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

(Data summarized on August 8)

| 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 | August 7, 2014 7:00 AM - 12:00 PM | | | | | | |
| 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 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. 1E-7Bq/cm3, Cs-134: Approx.1E-7Bq/cm3, Cs-137: Approx.1E-7Bq/cm3 Particulate: I-131: Approx. 6E-8Bq/cm3, Cs-134: Approx.6E-8Bq/cm3, Cs-137: Approx.7E-8Bq/cm3 As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

Reference

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

(Data summarized on August 8)

| 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 | August 7, 2014 7:35 AM - 12:35 PM | | August 7, 2014 7:52 AM - 12:52 PM | | August 7, 2014 7:48 AM - 12:48 PM | | |
| 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 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/cm3, Cs-134: Approx.1E-6Bq/cm3, Cs-137: Approx.2E-6Bq/cm3 Particulate: I-131: Approx. 6E-7Bq/cm3, Cs-134: Approx.9E-7Bq/cm3, Cs-137: Approx.8E-7Bq/cm3 As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

Reference

# Nuclides Analysis Result of the Radioactive Materials in the Air at the Sea Side of Fukushima Nuclear Power Stations

(Data summarized on August 8)

| 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 | August 7, 2014 7:41 AM - 12:41 PM | | | | | | |
| 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 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. 6E-8Bq/cm3, Cs-134: Approx.6E-8Bq/cm3, Cs-137: Approx.9E-8Bq/cm3 Particulate: I-131: Approx. 4E-8Bq/cm3, Cs-134: Approx.3E-8Bq/cm3, Cs-137: Approx.3E-8Bq/cm3 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 Sr in the Air at Fukushima Daiichi Nuclear Power Station <1/2>

1. Measurement Result: (Data summarized on August 8)

(Unit: Bq/cm$^3$)

| Place of Sampling | Type | Date of Sampling | Sr-89 | Sr-90 |
|---|---|---|---|---|
| 1F, West Gate | Volatile | Feb 10, 2014 | N.D. | N.D. |
| | Particulate | | N.D. | N.D. |

[ ] shows below the detection limit.

2. Analytical Institution
KAKEN Inc.

3. Evaluation:
Sr-89 and Sr-90 were not detected in the sample collected this time.

End

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

1. Measurement Result: (Data summarized on August 8)

(Unit: Bq/cm$^3$)

| Place of Sampling | Type | Date of Sampling | Sr-89 | Sr-90 |
|---|---|---|---|---|
| 1F, West Gate | Volatile | Mar 10, 2014 | N.D. | N.D. |
| | Particulate | | N.D. | N.D. |

[ ] shows below the detection limit.

2. Analytical Institution
KAKEN Inc.

3. Evaluation:
Sr-89 and Sr-90 were not detected in the sample collected this time.

End

# Analysis Result of Pu in the Air at Fukushima Daiichi Nuclear Power Station

1. Measurement Result: (Data summarized on August 8)

(Unit: Bq/cm$^3$)

| Place of Sampling | Type | Date of Sampling | Pu-238 | Pu-239+Pu-240 |
|---|---|---|---|---|
| 1F, West Gate | Volatile | Mar 10, 2014 | N.D. [$4.8\times10^{-10}$] | N.D. [$4.8\times10^{-10}$] |
| | Particulate | | N.D. [$3.9\times10^{-10}$] | N.D. [$4.3\times10^{-10}$] |

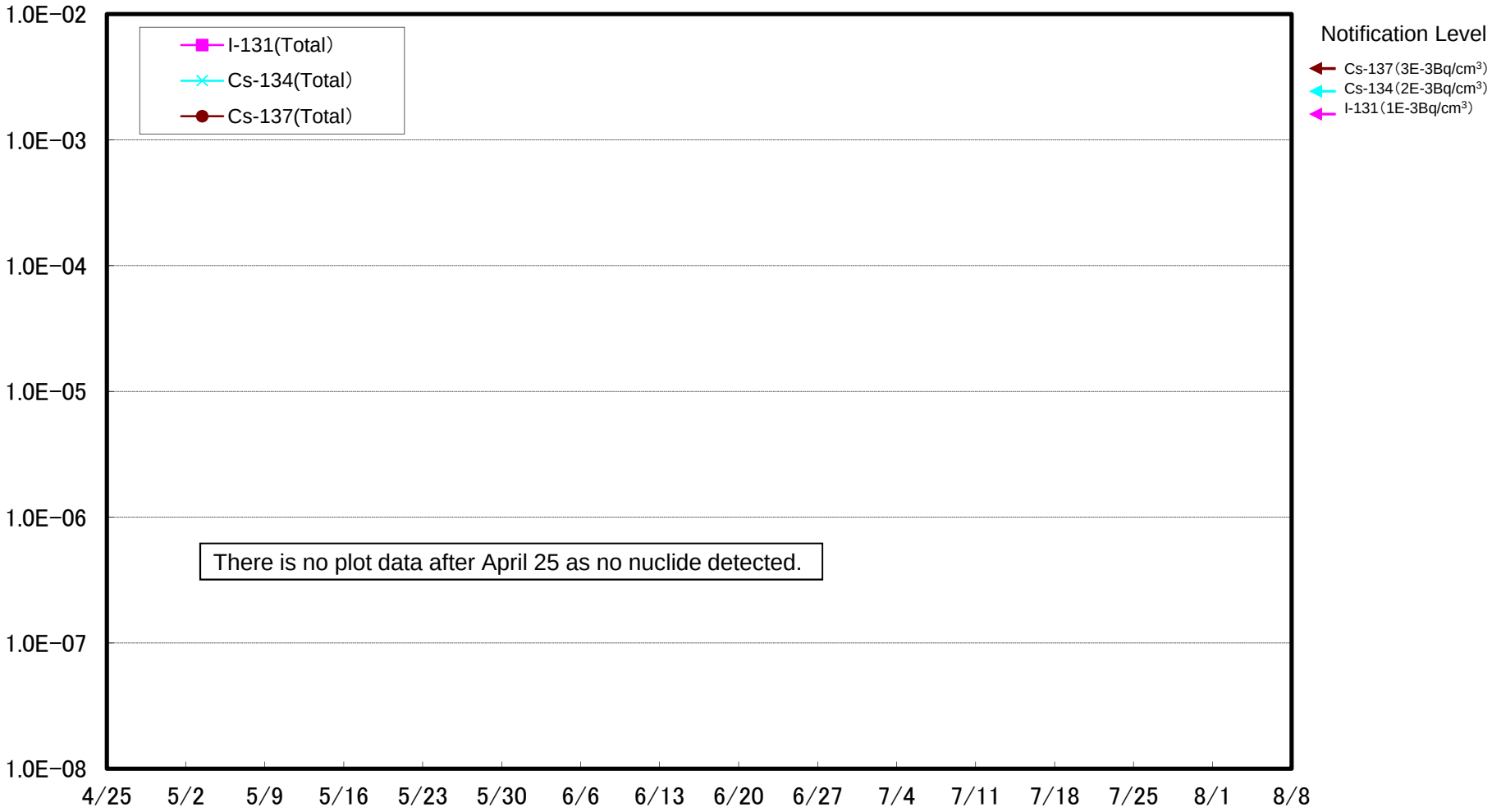
[ ] shows below the detection limit.

2. Analytical Institution
KAKEN Inc.

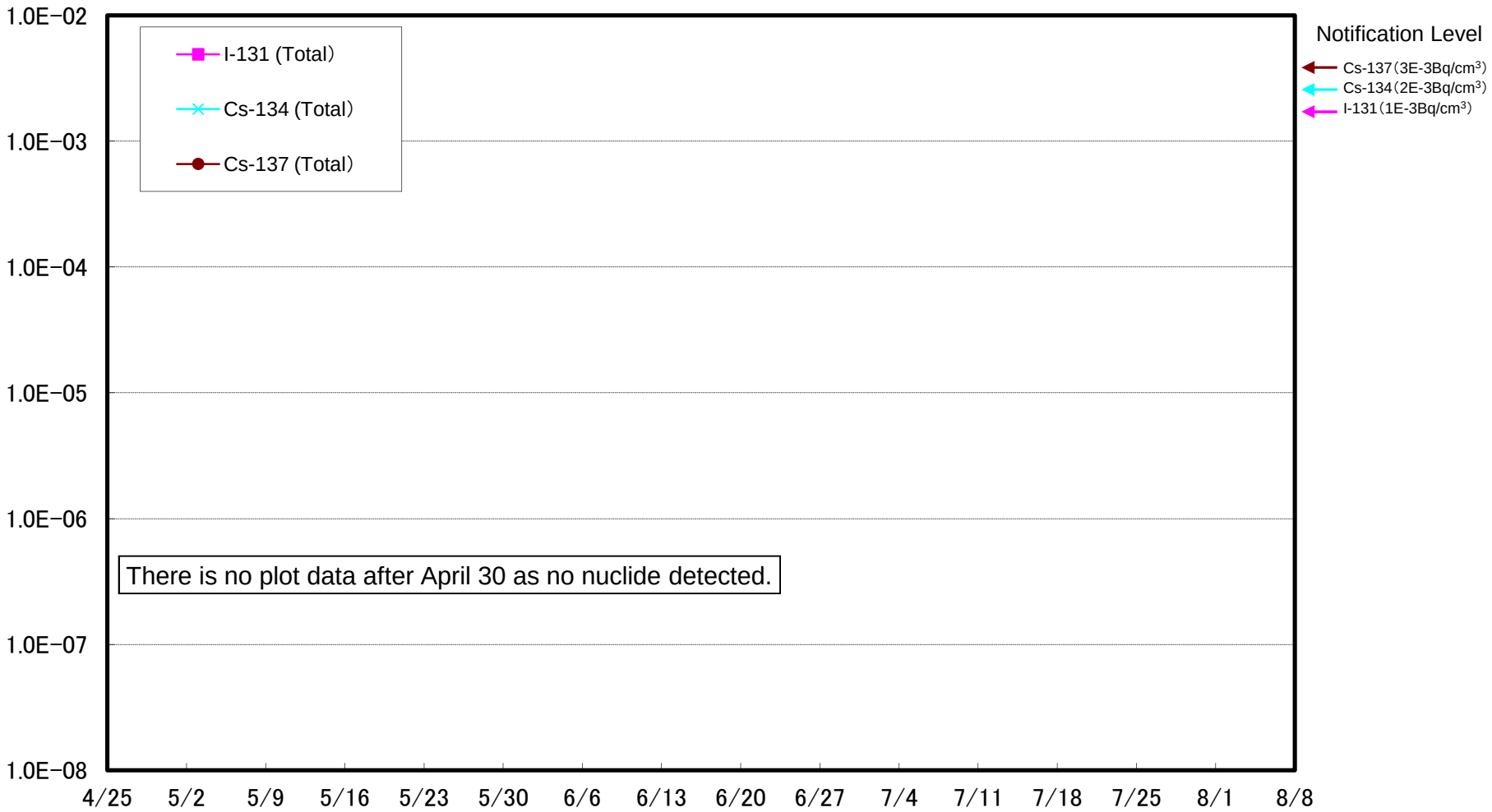
3. Evaluation:
Pu-238 and Pu-239+Pu-240 were not detected in the sample collected this time.

End

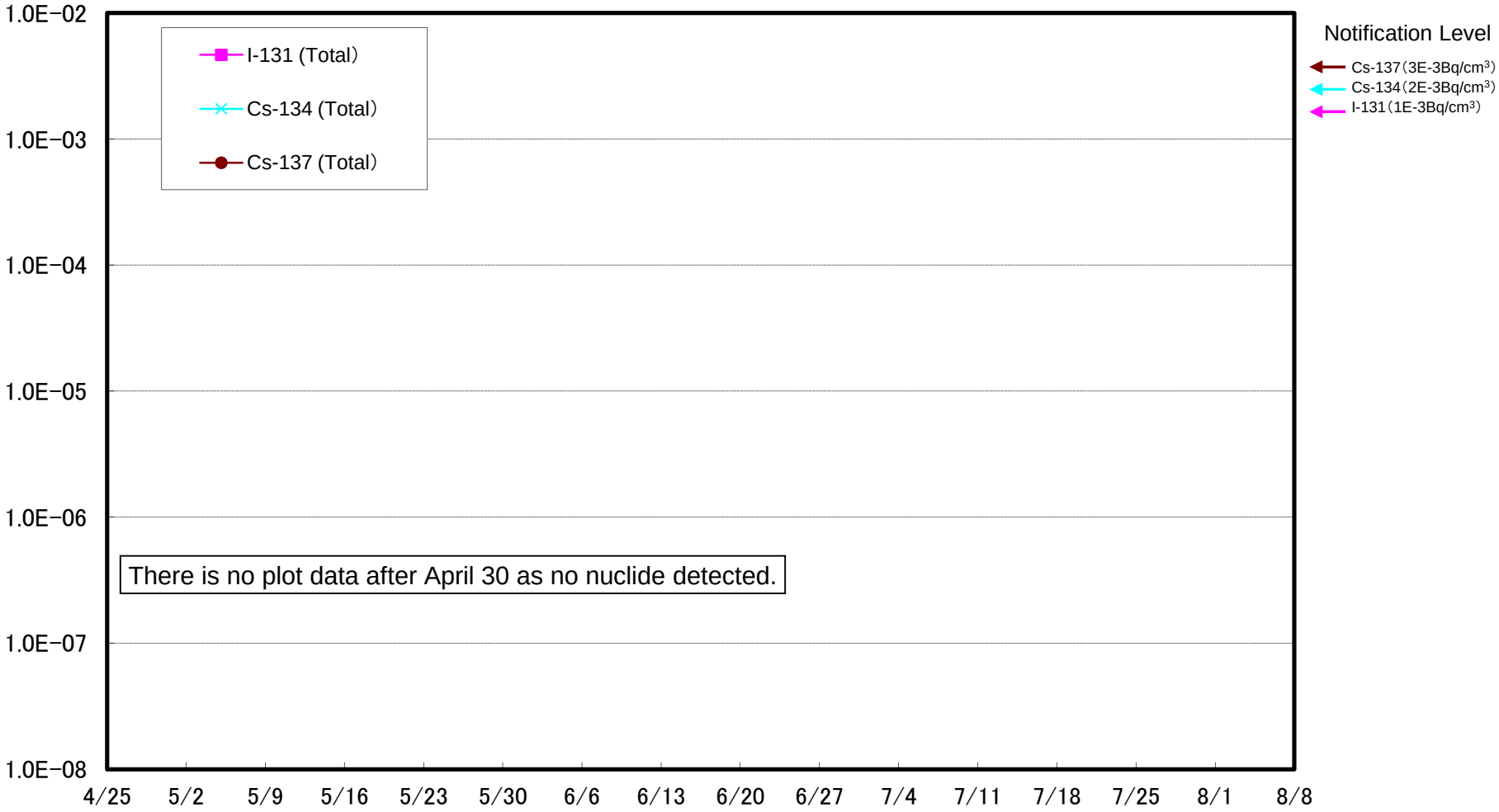
Dust Nuclides Analysis Result: The West Gate of Fukushima Daiichi Nuclear Power Station (Bq/cm$^3$)



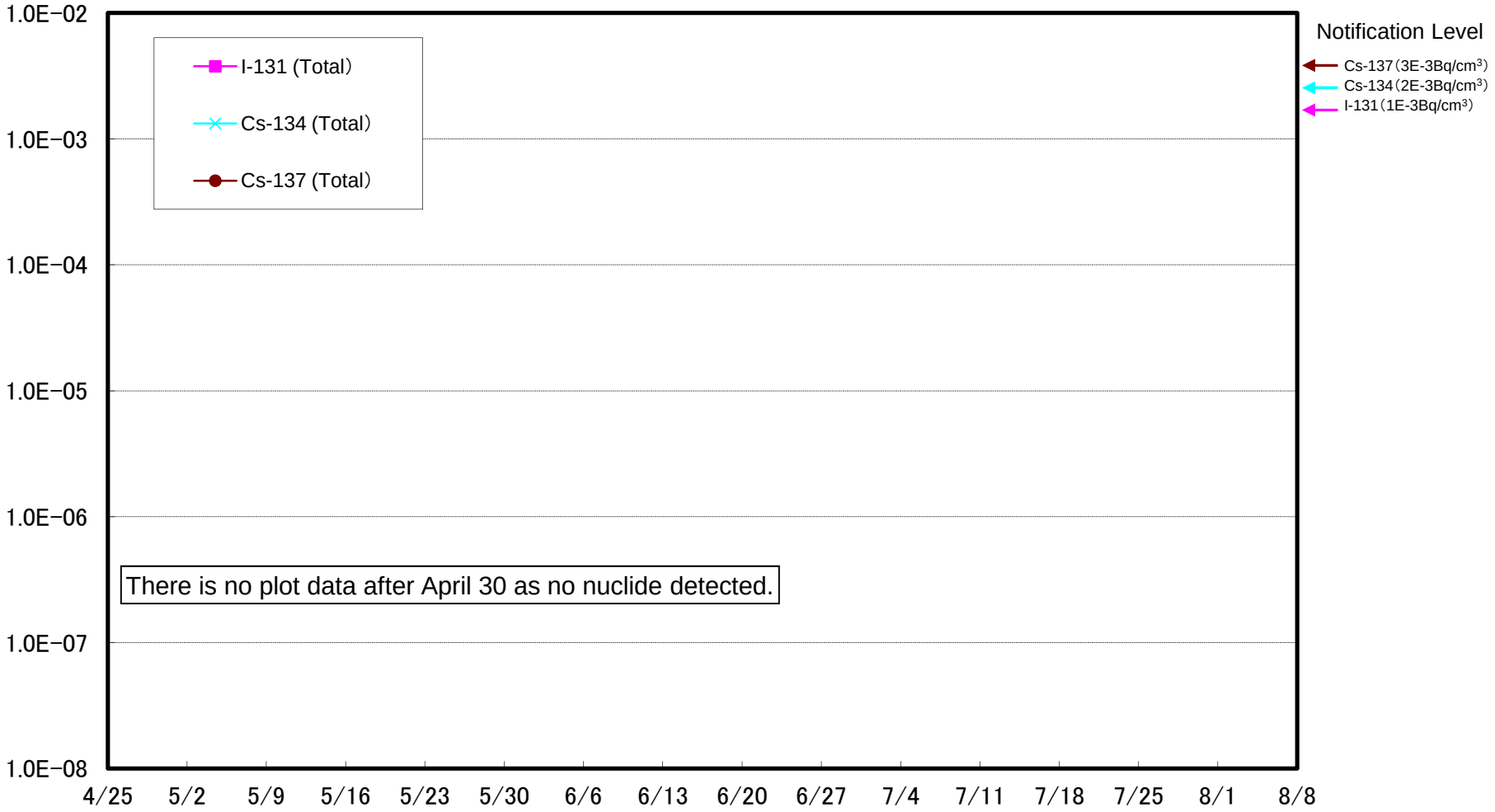
Dust Nuclides Analysis Results at Unit 1 North Side Slope at Fukushima Daiichi NPS (Bq/cm$^3$)



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$^3$)