

Reference

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

(Data summarized on August 17)

| 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) |
|-------------------------------|--|----------------------|--|----------------------|--|----------------------|---|
|                               | 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) |   |
| Time of Sampling              | August 16, 2012<br>7:00~12:00            |                      | August 16, 2012<br>9:15~9:25             |                      | /  |                      |   |
| 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 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/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. 2E-6Bq/cm<sup>3</sup>, Cs-134: Approx.2E-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.7E-7Bq/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 < 2/2 >

(Data summarized on August 17)

| 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              | August 16, 2012<br>8:16~13:16                    |                      | August 16, 2012<br>8:33~13:33                     |                      | August 16, 2012<br>8:29~13:29                     |                      |   |
| 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  | -                    | 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/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. 9E-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.

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

(Data summarized on August 17)

| Place of Sampling             | Fukushima Daiichi NPS Sea Side Area near Unit 1-4 |                      |  |                      |  |                      | ② Density Limit Specified by the Reactor Regulation (Bq/cm <sup>3</sup> )<br>(Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2) |
|-------------------------------|---|----------------------|--|----------------------|--|----------------------|--|
| Time of Sampling              | August 16, 2012<br>8:24 AM - 1:24 PM              |                      |  |                      |  |                      |  |
| 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  | -                    | /  | /                    | /  | /                    | 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  $O.O \times 10^{-O}$

Data of other nuclides is under examination.

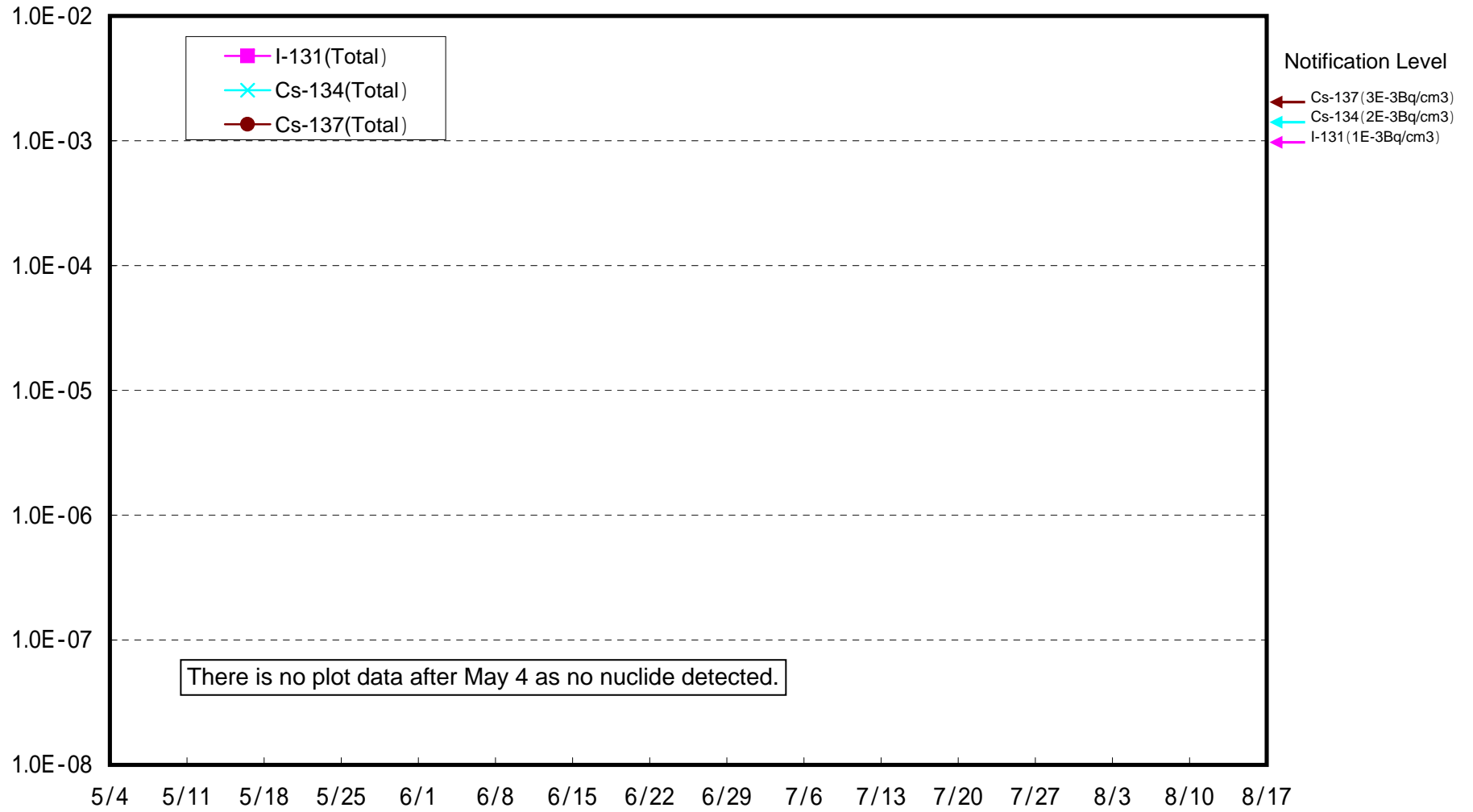
\* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

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

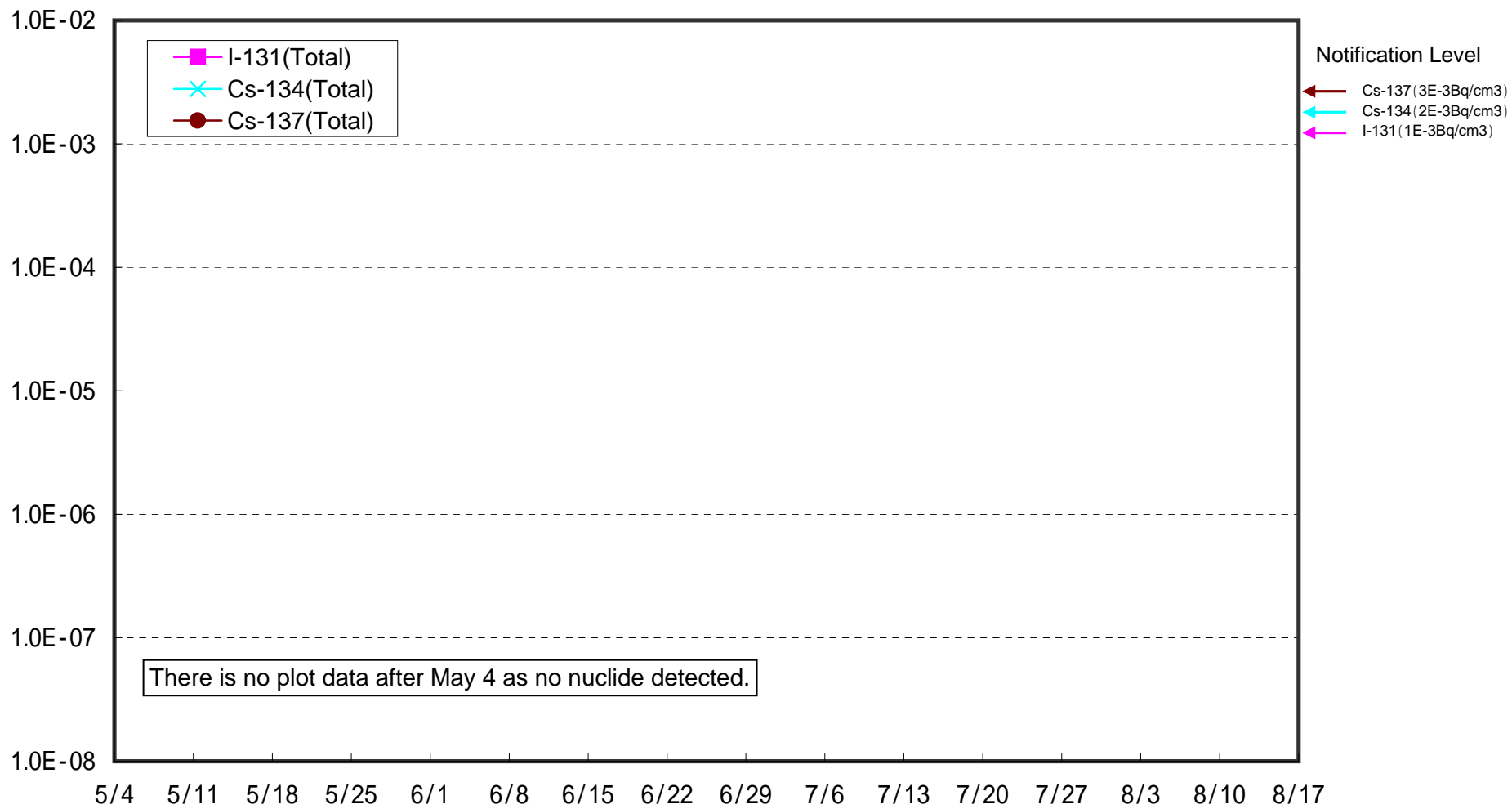
The detection limits are as follows. Volatile: I-131: Approx.  $1E-7$ Bq/cm<sup>3</sup>, Cs-134: Approx. $3E-7$ Bq/cm<sup>3</sup>, Cs-137: Approx. $4E-7$ Bq/cm<sup>3</sup>

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

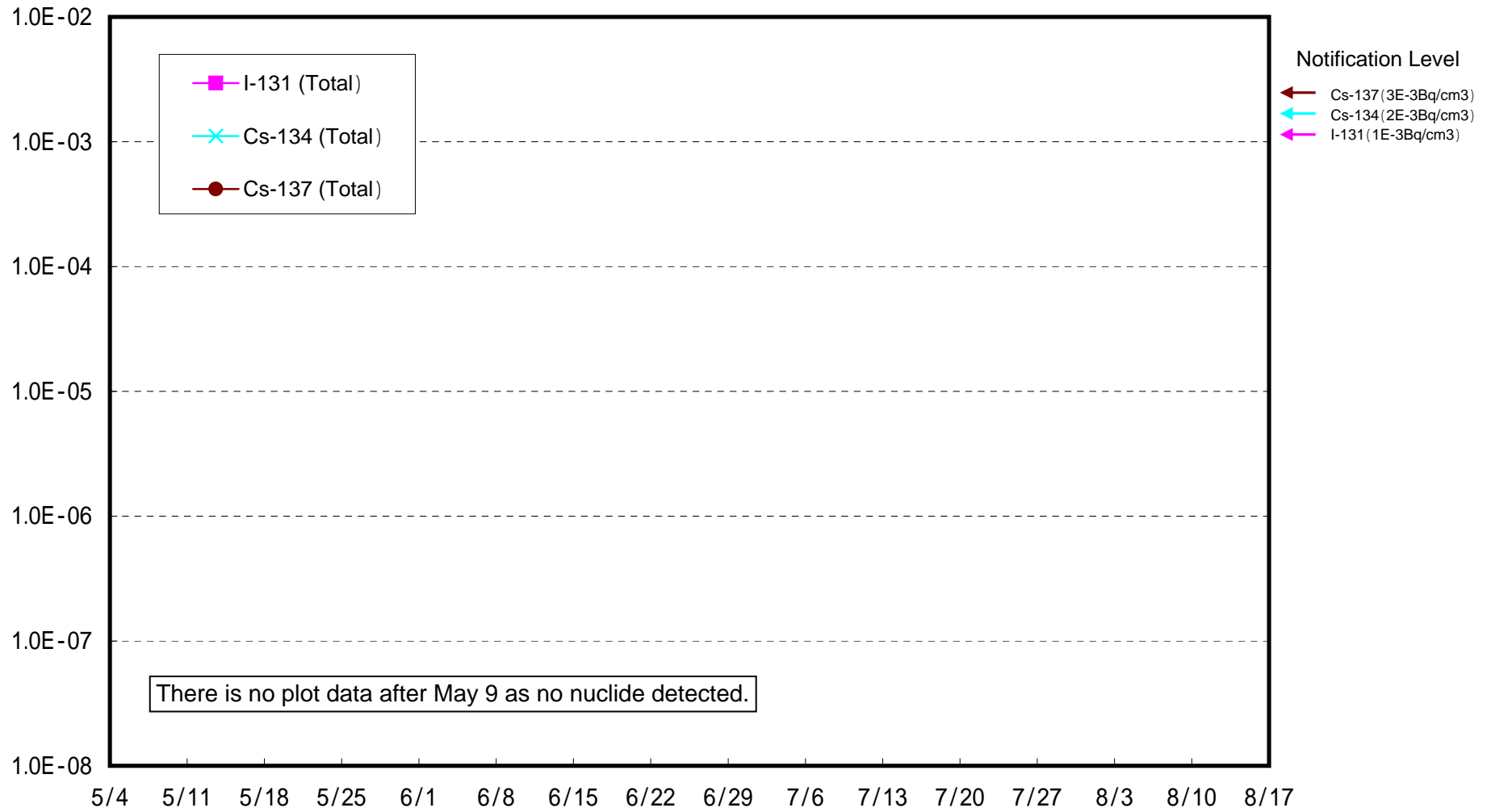
### Dust Nuclides Analysis Result: The West Gate of Fukushima Daiichi Nuclear Power Station (Bq/cm<sup>3</sup>)



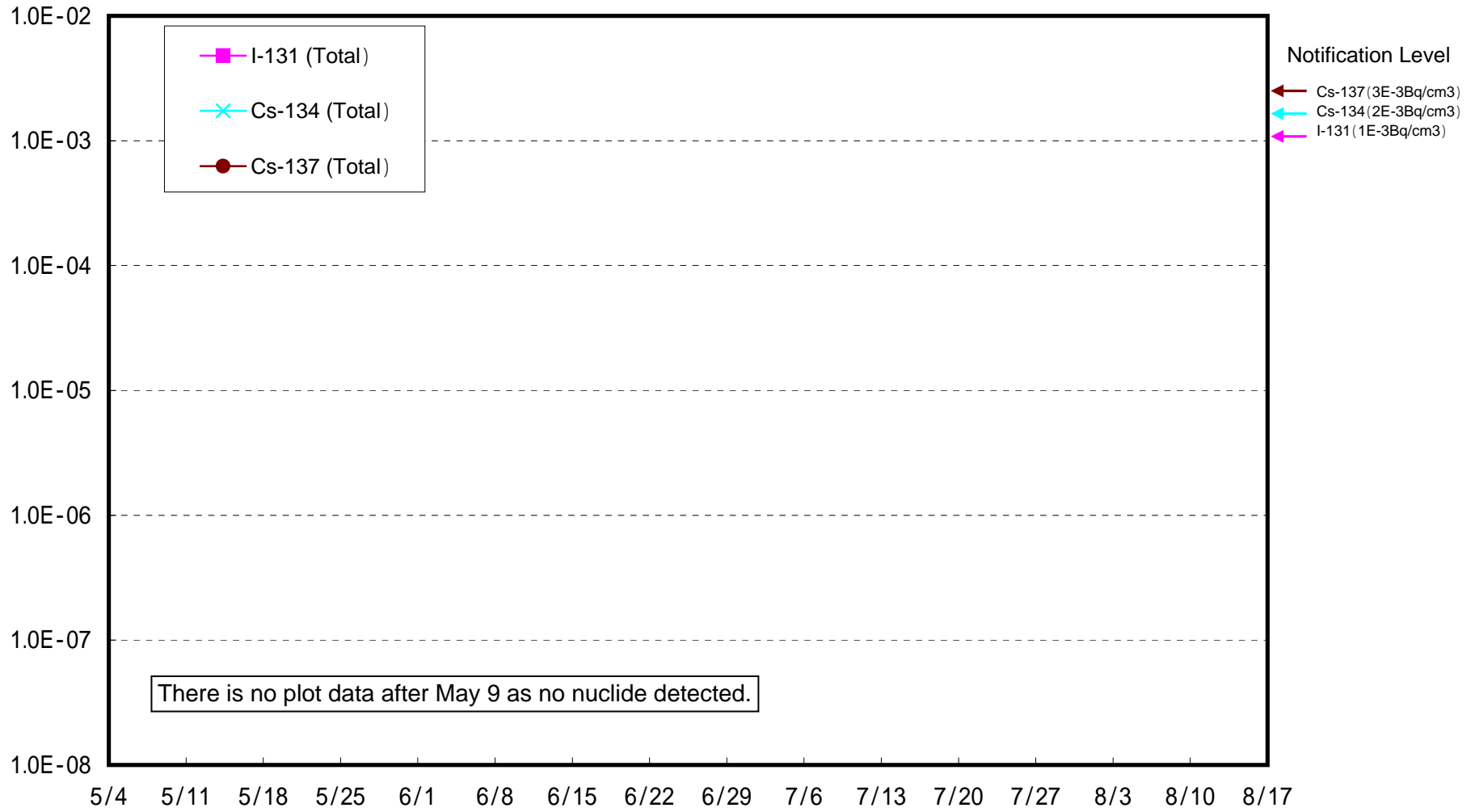
(Reference) Dust Nuclides Analysis Results of MP-1 at Fukushima Daini NPS (Bq/cm<sup>3</sup>)



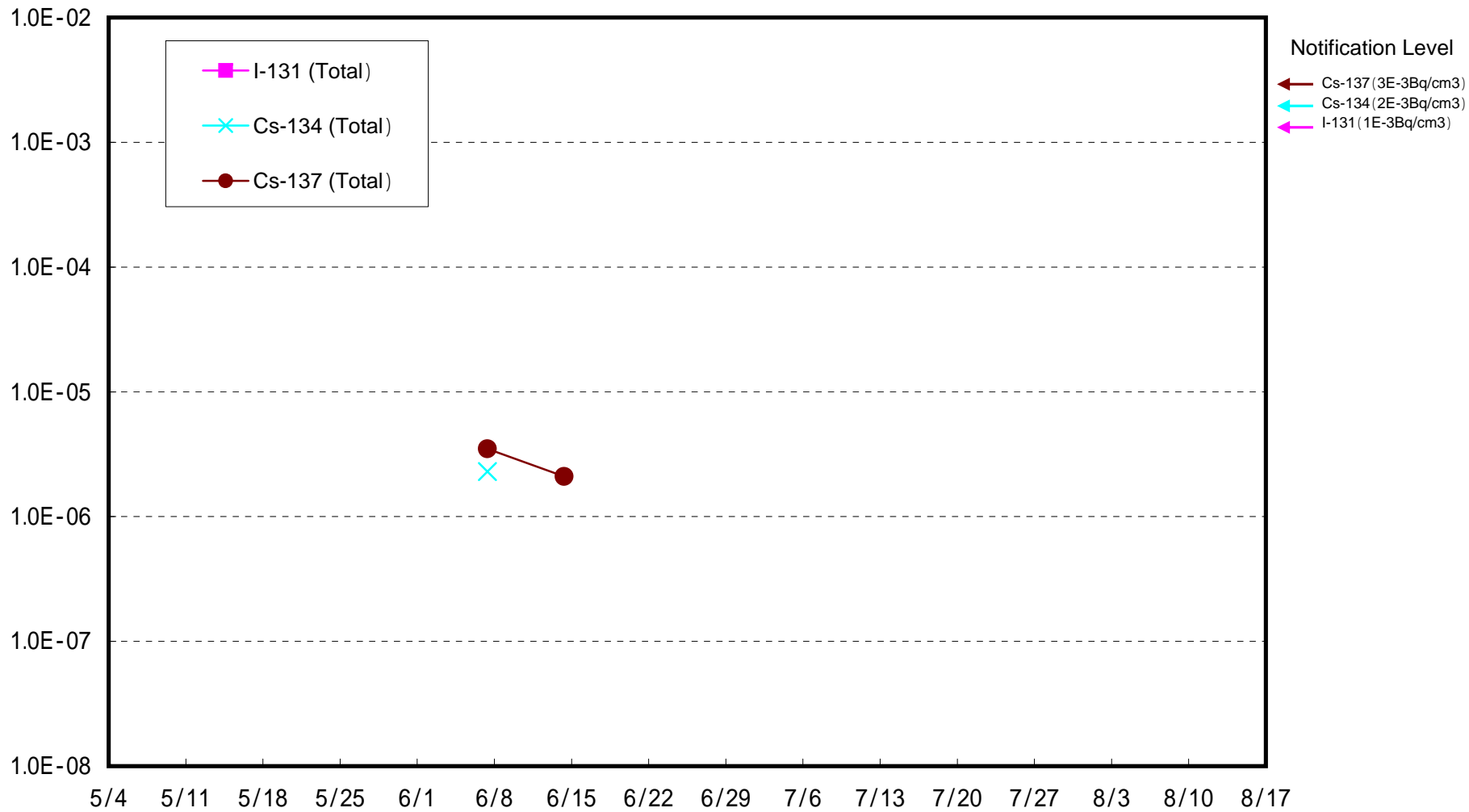
### Dust Nuclides Analysis Results at Unit 1 North Side Slope at Fukushima Daiichi NPS (Bq/cm<sup>3</sup>)



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>)





Fukushima Daiichi NPS Unit 1-4 Sea Side  
Results of Dust Nuclides Analysis (Bq/cm3)

