

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

(Data summarized on August 6)

| Place of Sampling             | The West Gate of Fukushima Daiichi NPS   |                      |  |                      |  |                      | 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) |
|-------------------------------|--|----------------------|--|----------------------|--|----------------------|--|
|                               | 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 5, 2014<br>7:00 AM - 12:00 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.

0.0E-0 is the same as  $0.0 \times 10^{-0}$

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.  $1E-7$ Bq/cm<sup>3</sup>, Cs-134: Approx.  $2E-7$ Bq/cm<sup>3</sup>, Cs-137: Approx.  $1E-7$ Bq/cm<sup>3</sup> Particulate: I-131: Approx.  $6E-8$ Bq/cm<sup>3</sup>, Cs-134: Approx.  $1E-7$ Bq/cm<sup>3</sup>, Cs-137: Approx.  $7E-8$ 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.

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

(Data summarized on August 6)

| Place of Sampling             | MP-1 at Fukushima Daiichi NPS            |                      | MP-3 at Fukushima Daiichi NPS            |                      | MP-8 at Fukushima Daiichi NPS            |                      | 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                         |                      | 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                                       | -                    | 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<sup>-O</sup>

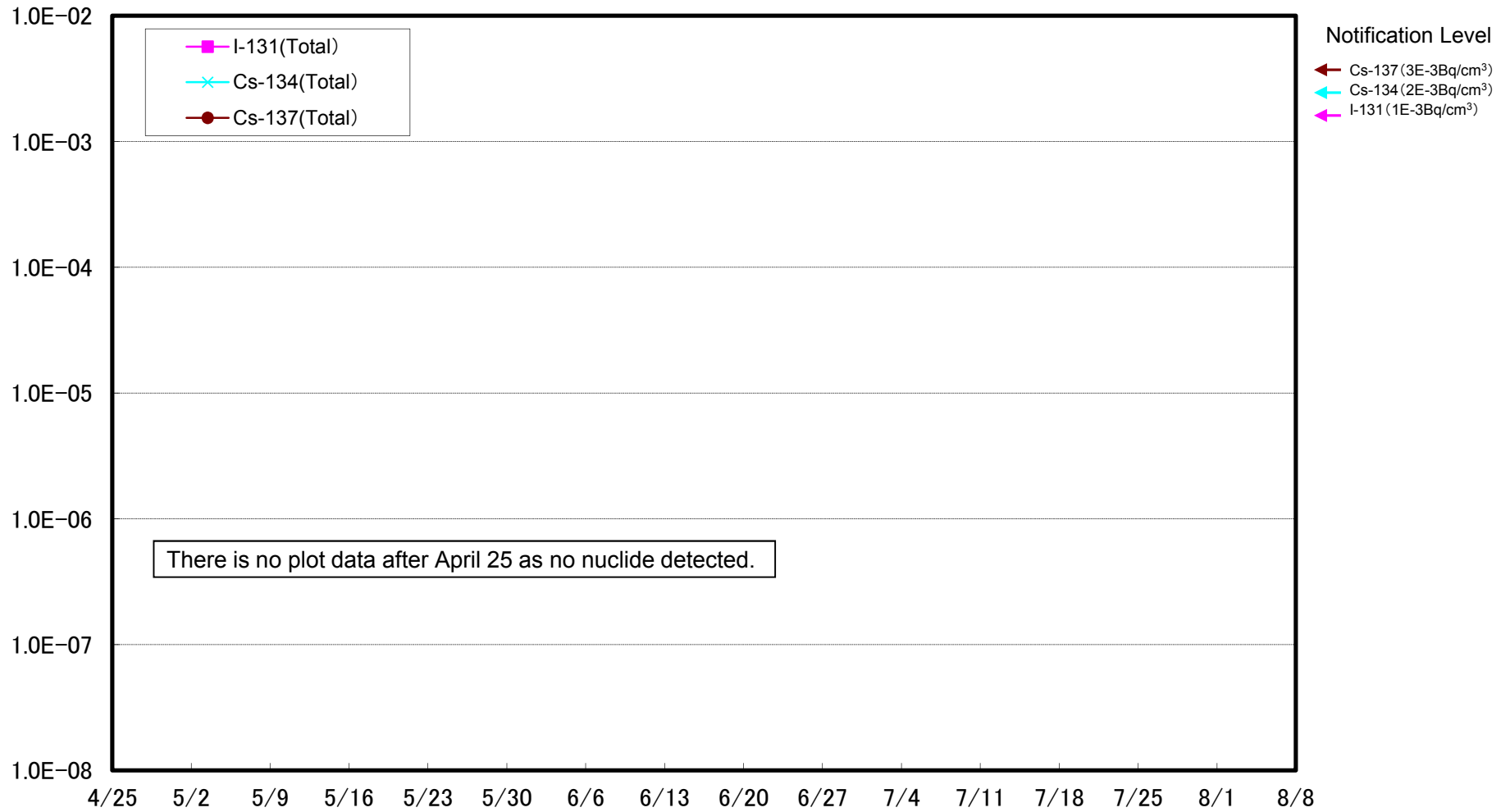
Data of other nuclides is under examination.

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

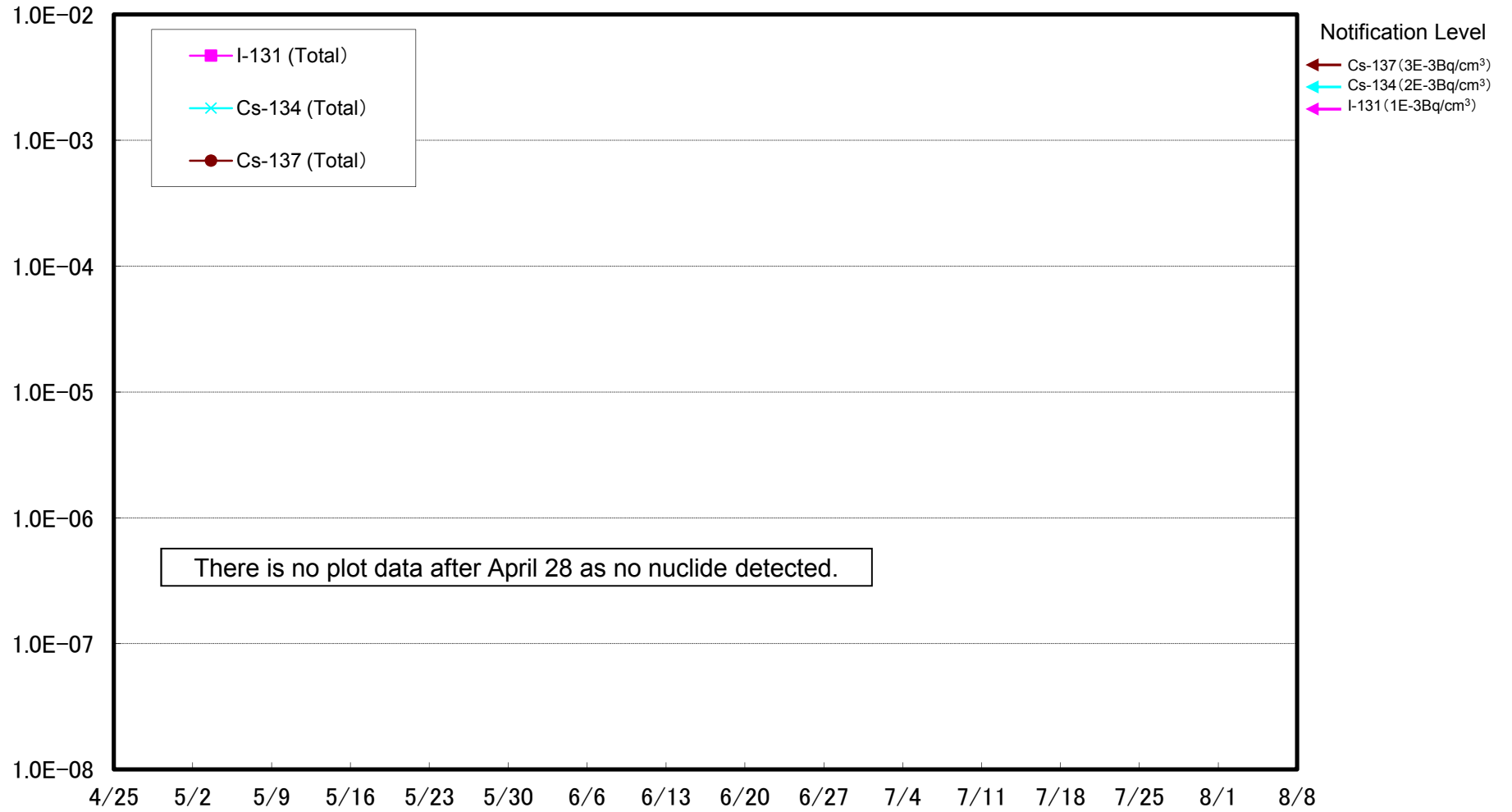
\* "ND" indicates that the measurement result is below the detection limit.

The detection limits are as follows. Volatile: I-131: Approx. 5E-8Bq/cm<sup>3</sup>, Cs-134: Approx.7E-8Bq/cm<sup>3</sup>, Cs-137: Approx.6E-8Bq/cm<sup>3</sup> Particulate: I-131: Approx. 3E-8Bq/cm<sup>3</sup>, Cs-134: Approx.5E-8Bq/cm<sup>3</sup>, Cs-137: Approx.4E-8Bq/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.

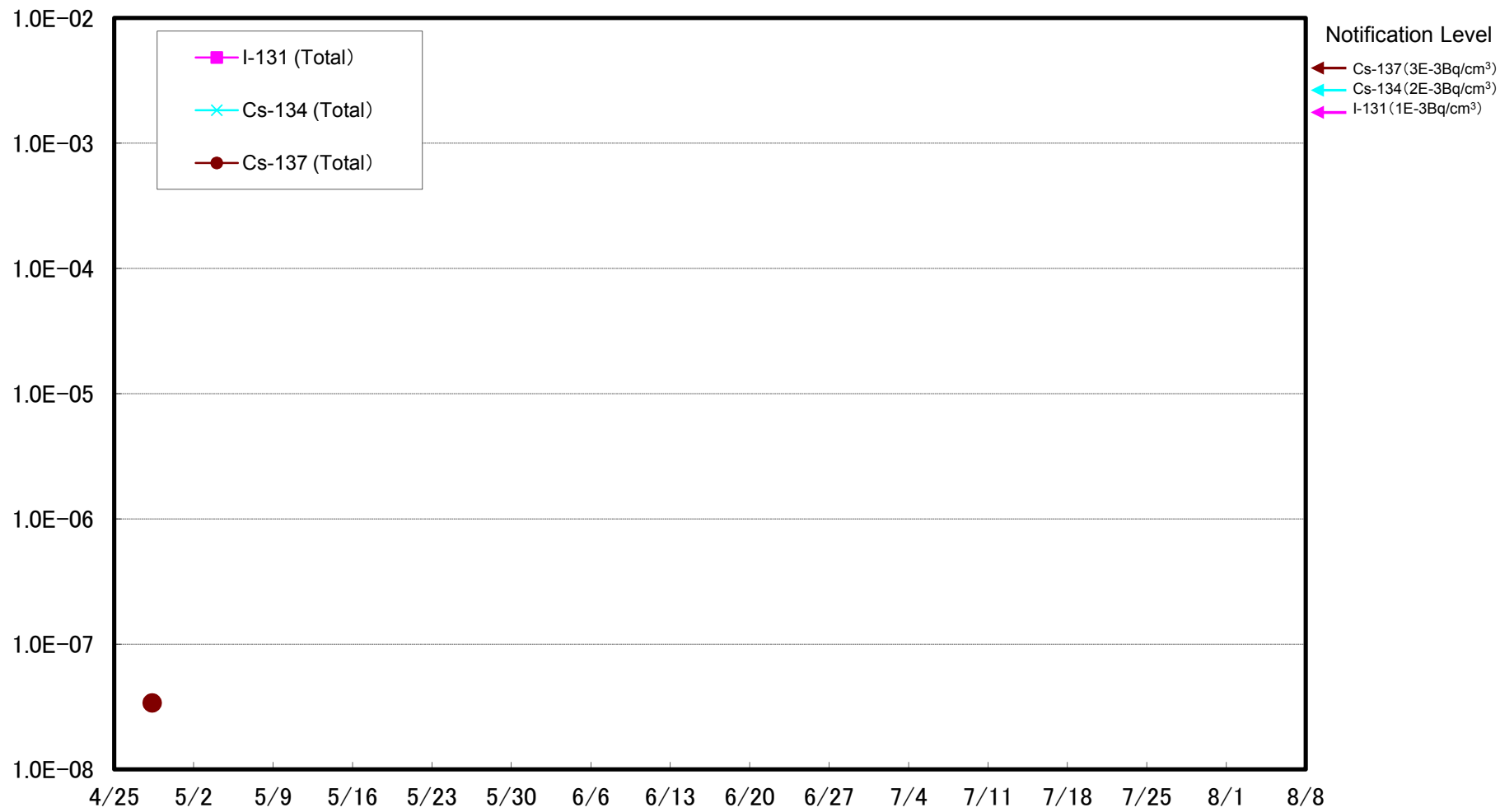
Dust Nuclides Analysis Result: The West Gate of Fukushima Daiichi Nuclear Power Station (Bq/cm<sup>3</sup>)



Dust Nuclides Analysis Result: MP-1 at Fukushima Daiichi NPS (Bq/cm<sup>3</sup>)



Dust Nuclides Analysis Result: MP-3 at Fukushima Daiichi NPS (Bq/cm<sup>3</sup>)



Dust Nuclides Analysis Result: MP-8 at Fukushima Daiichi NPS (Bq/cm<sup>3</sup>)

