

Nuclide Analysis Results of Radioactive Materials in the Air  
at the Sites of Fukushima Nuclear Power Stations

Reference

(Data Summarized on August 22)

| Place of sampling            | West Gate of Fukushima Daiichi                  |                      | MP-1 of Fukushima Daini (Reference)             |                      |   |                      | Density limit by the announcement of Reactor Regulation ( Bq/cm3 )<br>(Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2) <sup>2</sup> |
|------------------------------|---|----------------------|---|----------------------|---|----------------------|---|
| Date and time of sampling    | August 21, 2011<br>7:00am ~ 12:00am             |                      | August 21, 2011<br>9:23am ~ 9:32am              |                      |   |                      |   |
| Detected nuclide (half-life) | Radioactivity density <sup>1 3</sup> ( Bq/cm3 ) | Scaling factor ( / ) | Radioactivity density <sup>1 3</sup> ( Bq/cm3 ) | Scaling factor ( / ) | Radioactivity density <sup>1 3</sup> ( Bq/cm3 ) | Scaling factor ( / ) |   |
| I-131 (approx. 8 days)       | ND  | -                    | ND  | -                    | /   | /                    | 1E-03   |
| Cs-134 (approx. 2 years)     | ND  | -                    | ND  | -                    | /   | /                    | 2E-03   |
| Cs-137 (approx. 30 years)    | 3.6E-07   | 0.00                 | ND  | -                    | /   | /                    | 3E-03   |

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

. E - means . x 10<sup>-</sup>

Data of other nuclides are under examination.

2 In the case of more than 2 nuclides, summation of scaling factor for each statutory density is compared to 1.

3 In this analysis, "ND" means that the results fall bellow detection limits.

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

(Volatile: I-131: approx. 1E-7Bq/cm3, Cs-134: approx. 4E-7Bq/cm3, and Cs-137: approx. 4E-7Bq/cm3)

(Particulate: I-131: approx. 8E-8Bq/cm3, Cs-134: approx. 2E-7Bq/cm3, and Cs-137: approx. 2E-7Bq/cm3)

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

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

(Particulate: I-131: approx. 1E-6Bq/cm3, Cs-134: approx. 2E-6Bq/cm3, and Cs-137: approx. 2E-6Bq/cm3)