

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

(Data summarized on November 19)

| Place of Sampling             | West Gate of Fukushima Daiichi NPS       |                      | MP-1 of Fukushima Daini (Reference)      |                      |  |                      | Density limit by the announcement of Reactor Regulation ( Bq/cm <sup>3</sup> )<br>(Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2) |
|-------------------------------|--|----------------------|--|----------------------|--|----------------------|--|
| Time of Sampling              | Nov 18, 2011<br>7:00 ~ 12:00             |                      | Nov 18, 2011<br>9:31 ~ 9:41              |                      |  |                      |  |
| Detected Nuclides (Half-life) | density of sample ( Bq/cm <sup>3</sup> ) | Scaling Factor ( / ) | density of sample ( Bq/cm <sup>3</sup> ) | Scaling Factor ( / ) | density of sample ( Bq/cm <sup>3</sup> ) | Scaling Factor ( / ) |  |
| I-131<br>(about 8 days)       | ND                                       | -                    | ND                                       | -                    | /  | /                    | 1E-03  |
| Cs-134<br>(about 2 years)     | ND                                       | -                    | ND                                       | -                    | /  | /                    | 2E-03  |
| Cs-137<br>(about 30 years)    | 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.

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

\* "ND" means the sampled data is below measurable limit.

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

Volatile: I-131: approx. 1E-7Bq/cm<sup>3</sup>, Cs-134: approx. 3E-7Bq/cm<sup>3</sup>, Cs-137: approx. 3E-7Bq/cm<sup>3</sup>

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

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

Volatile: I-131: approx. 2E-6Bq/cm<sup>3</sup>, Cs-134: approx. 3E-6Bq/cm<sup>3</sup>, Cs-137: approx. 3E-6Bq/cm<sup>3</sup>

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