

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

(Data summarized on September 12)

| Place of Sampling             | West Gate of Fukushima Daiichi           |                      | MP-1 of Fukushima Daini (Reference)      |                      |  |                      | Density limit by the announcement of Reactor Regulation ( Bq/cm <sup>3</sup> ) (Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2) |
|-------------------------------|--|----------------------|--|----------------------|--|----------------------|---|
| Time of Sampling              | 2011 9/11<br>7:00-12:00                  |                      | 2011 9/11<br>9:36-9:46                   |                      |  |                      |   |
| 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 (about 8 days)          | ND                                       | -                    | ND                                       | -                    |  |                      | 1E-03   |
| Cs-134 (about 2 years)        | ND                                       | -                    | ND                                       | -                    |  |                      | 2E-03   |
| Cs-137 (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. 4E-7Bq/cm<sup>3</sup>, Cs-137: approx. 4E-7Bq/cm<sup>3</sup>      Particulate: I-131: approx. 7E-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. 8E-7Bq/cm<sup>3</sup>, Cs-134: approx. 2E-6Bq/cm<sup>3</sup>, Cs-137: approx. 2E-6Bq/cm<sup>3</sup>

## Nuclide Analysis Results of Radioactive Materials in the Air Offshore of the sites of Fukushima Nuclear Power Stations

(Data summarized on September 12)

| Place of Sampling                | Fukushima Daiichi<br>Upper of Offshore 2km-<br>3km<br>1st sampling |                            | Fukushima Daiichi<br>Upper of Offshore 2km-<br>3km<br>2nd sampling |                            | Fukushima Daiichi<br>Upper of Offshore 2km-<br>3km 3rd sampling |                            | Fukushima Daiichi<br>Upper of Offshore 2km-<br>3km 4th sampling |                            | Density limit by the<br>announcement of Reactor<br>Regulation ( Bq/cm <sup>3</sup> )<br>(Density limit in the air to<br>which radiation workers<br>breathe in the section 4 of<br>the appendix 2) |
|----------------------------------|--|----------------------------|--|----------------------------|---|----------------------------|---|----------------------------|---|
| Time of Sampling                 | 2011 9/10<br>19:38-20:08   |                            | 2011 9/10<br>20:10-20:40   |                            | 2011 9/10<br>20:42-21:12  |                            | 2011 9/10<br>21:13-21:43  |                            |   |
| Detected Nuclides<br>(Half-life) | density of<br>sample<br>( Bq/cm <sup>3</sup> )                     | Scaling<br>Factor<br>( / ) | density of<br>sample<br>( Bq/cm <sup>3</sup> )                     | Scaling<br>Factor<br>( / ) | density of<br>sample<br>( Bq/cm <sup>3</sup> )                  | Scaling<br>Factor<br>( / ) | density of<br>sample<br>( Bq/cm <sup>3</sup> )                  | Scaling<br>Factor<br>( / ) |   |
| I-131<br>(about 8 days)          | ND   | -                          | ND   | -                          | ND  | -                          | ND  | -                          | 1E-03   |
| Cs-134<br>(about 2 years)        | ND   | -                          | ND   | -                          | ND  | -                          | ND  | -                          | 2E-03   |
| Cs-137<br>(about 30 years)       | ND   | -                          | ND   | -                          | ND  | -                          | 4.5E-08   | 0.00                       | 3E-03   |

\* 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 are as follows:

I-131: approx. 3E-8Bq/cm<sup>3</sup>, Cs-134: approx. 5E-8Bq/cm<sup>3</sup>, Cs-137: approx. 6E-8Bq/cm<sup>3</sup>

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

This is the nuclide analysis of particulate radioactive material in the air.