

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

(Data summarized on September 13)

| 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> )<br>(Density limit in the air to which radiation workers breathe in the section 4 of the appendix 2) |       |
|-------------------------------|--|----------------------|--|----------------------|--|----------------------|--|-------|
|                               | Time of Sampling                         |                      | Time of Sampling                         |                      |  |                      |  |       |
| 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  $O.O \times 10^{-O}$

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.  $1E-7Bq/cm^3$ , Cs-134: approx.  $3E-7Bq/cm^3$ , Cs-137: approx.  $4E-7Bq/cm^3$       Particulate: I-131: approx.  $7E-8Bq/cm^3$ , Cs-134: approx.  $2E-7Bq/cm^3$ , Cs-137: approx.  $2E-7Bq/cm^3$

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

Volatile: I-131: approx.  $2E-6Bq/cm^3$ , Cs-134: approx.  $3E-6Bq/cm^3$ , Cs-137: approx.  $4E-6Bq/cm^3$       Particulate: I-131: approx.  $7E-7Bq/cm^3$ , Cs-134: approx.  $2E-6Bq/cm^3$ , Cs-137: approx.  $2E-6Bq/cm^3$

Reference

## Analysis Results of Radioactive Materials in the Air offshore of Fukushima Daiichi Nuclear Power Station

(Data summarized on September 13)

| Place of Sampling                | Fukushima Daiichi<br>Upper of Offshore 2km-<br>3km first time |                            | Fukushima Daiichi<br>Upper of Offshore 2km-<br>3km second time |                            | Fukushima Daiichi<br>Upper of Offshore 2km-<br>3km third time |                            | Fukushima Daiichi<br>Upper of Offshore 2km-<br>3km fourth time |                            | 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 Sep 11 (Not<br>sampled)                                  |                            | 2011 Sep 11 (Not<br>sampled)                                   |                            | 2011 Sep 11 (Not<br>sampled)                                  |                            | 2011 Sep 11 (Not<br>sampled)                                   |                            |   |
| 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)          | -   | -                          | -  | -                          | -   | -                          | -  | -                          | 1E-03   |
| Cs-134<br>(about 2 years)        | -   | -                          | -  | -                          | -   | -                          | -  | -                          | 2E-03   |
| Cs-137<br>(about 30 years)       | -   | -                          | -  | -                          | -   | -                          | -  | -                          | 3E-03   |

\* O.OE - O means O.O x 10-O